

39 Bearbetning av plast, elaster eller hornartade ämnen som inte omfattas av andra klasser; Framställning av plast

39a	Bearbetning av horn, elfenben eller andra snidbara ämnen, gummi, guttaperka eller andra plaster, mekanisk del	[-62]
(39a)	(IPC: B29) Bearbetning av plastmaterial, elaster eller hornartade ämnen som inte omfattas av andra klasser, mekanisk del)	[62-]
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39b	Bearbetning av plastmaterial, elaster eller hornartade ämnen, som inte omfattas av andra klasser, kemisk del; Bromsmassor; Slipmassor; Termiska eller akustiska isolermassor	[-68]
(39b)	(IPC C08) Macromolecular compounds; Their preparation and chemical working-up; Compositions based thereon)	[68-]
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39c	Framställning av konsthartser; Framställning av konstgummi eller andra gummiliknande kondensationsprodukter eller polymerisationsprodukter	[-62]
39c	Framställning av plaster	[62-]
39g	(IPC: B32B) Layered products	[72-]

39a	Bearbetning av horn, elfenben eller andra snidbara ämnen, gummi, guttaperka eller andra plaster, mekanisk del	[-62]
	Bearbetning av horn, elfenben eller liknande snidbara ämnen i allmänhet (bearbetning till knappar 39a-5/01 – 39a-7)	[-62]
39a-1	Bearbetning av horn i allmänhet	[-62]
39a-2	Bearbetning av elfenben i allmänhet	[-62]
39a-3	Bearbetning av fiskben eller ersättningar därför	[-62]
39a-4	Bearbetning av fjäderpennor	[-62]
	Framställning av knappar av horn, elfenben eller liknande snidbara ämnen (knappar 44a-1 – 44a-20)	[-62]
	Framställning av knappämnen av horn e.d.	[-62]
39a-5/01	genom svarvning eller fräsning	[-62]
39a-5/02	genom pressning	[-62]
39a-5/03	genom utskärning	[-62]
39a-5/04	Isättning av öglor i knappämnen, t.ex. vid formpressningen	[-62]
	Bearbetning av knappämnen av horn e.d.	[-62]
39a-6/01	genom borrar	[-62]
39a-6/02	genom slipning, polering e.d.	[-62]
39a-7	Framställning av färdiga knappar ur råmaterialet	[-62]
	Bearbetning av kautschuk, gummi eller guttaperka	[-62]
	Bearbetning av rågummi (kautschuk)	[-62]
39a-8/01	Bearbetning av gummilatex (39b-1)	[-62]
39a-8/02	Utvinning ur växtdelar (39b-2)	[-62]
39a-8/03	Tvättning av rågummi	[-62]
39a-8/04	Skärning, spjälkning eller torkning av rågummi	[-62]
39a-8/05	Framställning av föremål av gummilatex	[-62]
	Allmän bearbetning av plastmassor, ovulkade kautschukmassor eller gummimassor	[-62]
39a-9/01	Knådning; Blandning; Hjälpmedel för knådning eller blandning	[-62]
39a-9/02	Knådvalsar; Blandmaskiner; Blandvalsverk	[-62]
39a-9/03	Kalandrar	[-62]
39a-9/04	Valsar	[-62]
	Speciell bearbetning av ovulkaniserade gummimassor (39b-5/14)	[-62]
39a-10/01	Stansning; Formning; Kontinuerlig bearbetning; Framställning av svampgummi (39b-9)	[-62]
39a-10/02	Framställning av ärmlappar	[-62]
39a-10/03	Framställning av gummitråd (39b-5/15)	[-62]
39a-10/04	Förbindning av gummi med andra ämnen, t.ex. inlägg, fibermaterial, läder eller metaller (39b-5/18; 39b-5/20)	[-62]
39a-10/05	Beklädnad eller överdragning av föremål med gummi eller latex (39b-5/20)	[-62]
39a-10/06	Bestrykning	[-62]
39a-10/07	Framställning av remmar, mattor, golvbeläggningar e.d. av gummi	[-62]
39a-10/08	Doppning	[-62]
39a-10/09	Vulstbildning på sömlösa gummiföremål	[-62]
39a-10/10	Dekoration (75)	[-62]
39a-10/11	Framställning av ihåliga gummiföremål, t.ex. värmeflaskor, gasmasker eller leksaksdjur	[-62]
39a-10/12	Framställning av uppblåsbara ihåliga föremål, t.ex. ballonger eller leksaksfigurer	[-62]
39a-10/13	Framställning av bollar	[-62]

39a-10/14	Framställning av gummislangar (47f-3/40)	[-62]
39a-10/15	Slangpressar	[-62]
39a-10/16	Lindning, dragning eller tillslutning av slangar	[-62]
39a-10/17	Framställning eller reparation av gummiskodon; Hjälpmedel därför	[-62]
39a-10/18	Bearbetning av hårdgummi (39b-5/04)	[-62]
39a-10/50	Framställning av gummislangar för pneumatiska däck	[-62]
39a-10/51	Framställning av slitbanor på fordonsdäck (63e)	[-62]
39a-10/52	Maskiner för framställning av pneumatiska gummidäck	[-62]
	Vulkanisering av gummi [kautschuk] mekanisk del (39b-6 – 39b-8)	[-62]
39a-11/01	Vulkanisering i speciella medier	[-62]
39a-11/02	Vulkaniseringsautoklaver	[-62]
39a-11/03	Tillslutningar för vulkaniseringsautoklaver	[-62]
39a-11/04	Kontinuerlig vulkanisering	[-62]
39a-11/05	Vulkanisering i begränsade längder	[-62]
39a-11/06	Vulkaniseringsformar	[-62]
39a-11/07	Hjälpmedel eller verktyg för vulkaniseringsformar	[-62]
39a-11/08	Vulkaniseringspressar	[-62]
39a-11/09	Vulkaniseringsautoklavpressar	[-62]
39a-11/10	Temperaturregulatorer för vulkaniseringsapparater	[-62]
39a-11/50	Vulkaniseringsapparater för framställning av pneumatiska gummidäck	[-62]
39a-11/51	Vulkaniseringsapparater för reparation av pneumatiska gummidäck	[-62]
39a-11/70	Anordningar för kallvulkanisering (39b-6)	[-62]
	Bearbetning av plast, vulkad kautschuk eller gummi	[-62]
39a-12/01	Skärning eller sågning av ringar, skivor e.d.	[-62]
39a-12/02	Malning; Siktning	[-62]
39a-12/03	Återvinning; Regenerering (39b-10)	[-62]
39a-12/04	Skärning; Spjälkning; Slipning	[-62]
39a-13	Bearbetning av guttaperka, mekanisk del	[-62]
	Bearbetning av andra plaster (gummi 39a-8 – 39a-13, papper 54, 65; keramiska massor 80)	[-62]
	Framställning av föremål eller film av celluloid, viskos e.d.	[-62]
39a-14	Framställning av massiva föremål	[-62]
39a-15	Framställning av ihåliga föremål	[-62]
39a-16	Framställning av film	[-62]
	Framställning av överdrag på föremål (22g; 22h)	[-62]
39a-17/01	Påföring av skikt av plaster på styva föremål (för dekorationssändamål 75b)	[-62]
39a-17/02	Påföring av skikt av plaster på böjliga material	[-62]
39a-17/03	Framställning av trådglassättning av plaster	[-62]
39a-17/50	Framställning av splittersäkert glas, t.ex. lamellglas (39b-27)	[-62]
39a-17/51	Skärning eller tätning av splittersäkert glas	[-62]
39a-18/01	Framställning av gelatinfolier	[-62]
39a-18/02	Framställning av kapslar, pärlor eller andra föremål av gelatin	[-62]
	Formning av andra plaster i allmänhet, mekanisk del	[-62]
39a-19/01	Sprutning av konsthartser	[-62]
39a-19/02	Bearbetning av kaseinplaster (39b-18)	[-62]
39a-19/03	Bearbetning av cellulosaplaster (39b-12 – 39b-15)	[-62]
39a-19/04	Gjutning av konsthartser	[-62]
39a-19/05	Pressning av konsthartser	[-62]
39a-19/06	Bearbetning av fibrer, vävnader e.d. impregnerade med konstharts (39b-22)	[-62]

39a-19/07	Bearbetning av andra plaster	[62-]
39a-19/50	Bearbetning av korkmassor (38g; 38h)	[62-]
39a-19/51	Framställning av golfbollar genom pressning	[62-]
39a-19/52	Apparater för lindring av kärnor till golfbollar	[62-]
	Tillverkning av kammar av plaster, t.ex. hårdgummi eller celluloid	[62-]
39a-20/01	Pressning	[62-]
39a-20/02	Dubblering	[62-]
39a-20/03	Utskärning	[62-]
39a-20/04	Fräsning, blåsning e.d.	[62-]
39a-20/05	Slipning, polering, spetsning, dekorering e.d.	[62-]
39a-21	Bearbetning av plaster, t.ex. bärnsten, till cigarmunstycken	[62-]
39a-22	Bearbetning av plaster, t.ex. celluloid, till dockor	[62-]
39a-23	Bearbetning av plaster till skoöglor eller skohakar	[62-]
39a-24	Bearbetning av plaster till konstläder (8I-2; 39b)	[62-]

39a1 (IPC: B29B) Förberedning eller förbehandling av material [62-]

39a1-1/00 Förbehandling av material som ska formas [62-]

39a1-1/02	. Granulering; Tabletering	[62-]
39a1-1/03	. . Framställning av pellets	[71-]
39a1-1/032	. . Tabletering	[71-]
39a1-1/04	. Blandning; Knådning	[62-]
39a1-1/06	. . Blandare; Knådare	[62-]
39a1-1/08	. . . Blandningsvalsar	[62-]
39a1-1/10	. . . Blandare med i varandra ingripande matarskruvar	[62-]
39a1-1/12	. Malning; Siktning; Filtrering	[62-]
39a1-1/14	. Framställning av förformade kroppar	[62-]

39a1-3/00 Värmning eller kylning av materialet under förbehandlingen [62-]

39a1-3/02	. Smältning av de massor som ska formas	[62-]
39a1-3/04	. Torkning av de massor som ska formas	[71-]

39a1-5/00 Frammatning av de material som ska formas [62-]

39a1-5/02	. till förbehandlingsapparaterna	[62-]
39a1-5/04	. till formningsmaskinerna, t.ex. fyllning av formpressar	[62-]
39a1-5/06	. . i avmätta mängder	[62-]

39a2 (IPC: B29C) Allmän formgivning, t.ex. formning i form, bockning, skärning eller hopfogning [62-]

Formgivning i en form [62-]

39a2-1/00 Formar; Matriser; Tillbehör till formar eller matriser [62-]

39a2-1/02	. Material för formar; Framställning av formar eller formdelar (framställning av formar eller formdelar av metall 31c, 49a-1)	[62-]
39a2-1/04	. Förhindrande av vidhäftning av de formade kropparna vid formen, t.ex. genom användande av släppmedel	[62-]
39a2-1/06	. Formkärnor	[62-]
39a2-1/08	. . Smältbara kärnor	[62-]
39a2-1/10	. . Kornformiga eller pulverformiga kärnor	[62-]
39a2-1/12	. . Elastiska kärnor	[62-]
39a2-1/13	. . . med termoplastiskt minne	[71-]
39a2-1/14	. Formar för framställning av föremål med hålrum eller underskärningar	[62-]
39a2-1/16	. Anordningar för sammanhållning av formdelarna, t.ex. klämmor	[62-]

39a2-3/00 Pressar, speciellt lämpade för pressning av plastmassor [62-]

39a2-3/02	. Pressar med formar på en rörlig bärare, t.ex. i valsar	[71-]
39a2-3/04	. Matningsanordningar	[71-]
39a2-3/06	. Regleranordningar	[71-]

39a2-5/00	Gjutning i form (gjutning av folier 39a3-7/02; gjutning av rör 39a3-23/08)	[62-]
39a2-5/02	. genom sprutning på innerytan av en form	[62-]
39a2-5/04	. genom centrifugering eller vridning	[62-]
39a2-5/06	. genom formblåsning	[62-]
39a2-5/08	. . i flera lager	[71-]
39a2-5/10	. . i formar som rör sig kontinuerligt längs en produktionslinje	[71-]
39a2-5/12	. Gjutning av plastisol	[71-]
39a2-6/00	Encapsulating in a mould, the encapsulating material being a powder or a liquid	[71-]
39a2-6/02	. the article being enclosed in the mould	[71-]
39a2-6/04	. . only partly	[71-]
39a2-7/00	Uttagning av formade föremål ur formar	[62-]
39a2-9/00	Framställning av flerfärgade föremål ur flera plastmaterial	[62-]
39a2-11/00	Andra slag av formgivning i form (formsprutning 39a4; tryckformning 39a5)	[62-]
	<u>Formgivning på andra sätt än inuti en form</u>	[62-]
39a2-13/00	Formgivning genom överdragning av en formkropp, t.ex. genom doppning eller påsprutning	[62-]
39a2-13/02	. av flaskkapsyler; Formning av kapsyler kring insatser eller flaskhalsar	[62-]
39a2-13/04	. Avdragning av de formade föremålen från formen	[62-]
39a2-15/00	Formgivning genom klämpressning, t.ex. mellan band eller valsar (framställning av folier 39a3-7/14)	[62-]
39a2-17/00	Formgivning genom bearbetning av förformade delar, t.ex. av folier, rör eller stänger (hopfogning av formdelar 39a2-19/00)	[62-]
39a2-17/02	. genom böckning, vikning eller sträckning, t.ex. dragning av stänger (av rörformiga kroppar ur folier 39a3-23/10)	[62-]
39a2-17/03	. . genom djupdragning	[71-]
39a2-17/04	. . genom formning av bladformigt material mot en formyta med hjälp av tryckmedium	[62-]
39a2-17/06	. . med hjälp av tryckblåsa	[62-]
39a2-17/07	. . by distorting a tubular preform against a shaped surface by fluid pressure	[71-]
39a2-17/08	. genom borttagande av material	[62-]
39a2-17/10	. . genom skärning, fräsning, borrar eller hyvling	[62-]
39a2-17/12	. . genom slipning eller polering; avgradning	[62-]
39a2-17/14	. genom skärning utan avfall, t.ex. skärning av strängpressade material i längder (skärning av folier ur block 39a3-7/18)	[62-]
39a2-17/16	. . Arrangements for discharging cut-off sheets, rods, or tubes, e.g. associated with extrusion presses	[71-]
39a2-19/00	Hopfogning av formade delar, t.ex. genom svetsning, klistring eller påkrympning på kärnor (laminerade folier eller andra laminat 39a3-9/00)	[62-71]
39a2-19/02	. Svetsning av plastmaterial	[62-71]
39a2-19/04	. . med hjälp av högfrekvensfält	[62-71]
39a2-19/06	. . Motståndssvetsning	[62-71]
39a2-21/00	Framställning av flerfärgade föremål ur flera plastmaterial	[62-]
39a2-23/00	Annan formgivning utan användning av en form (strängsprutning 39a4; formning vid lägre tryck 39a5)	[62-]
39a2-24/00	Shaping by combined operations, e.g. by folding and welding, not otherwise provided for (for producing particular articles 39a3)	[71-]
	<u>Efterbehandling</u>	[62-]
39a2-25/00	Efterbehandling av formade föremål, t.ex. sluthärdning	[62-]

39a2-27/00	Joining, e.g. welding, gluing, shrinking onto cores (producing layered products consisting only of plastics other than rubber 39a3-9/00; processes for joining materials by welding overlapping edges with an insertion of plastics material 22i2-5/10)	[71-]
39a2-27/02	. Welding plastic materials	[71-]
39a2-27/04	. . by using a high-frequency electric field	[71-]
39a2-27/06	. . using an electrically-heated welding tool	[71-]
39a2-27/08	. . by using frictional heat, e.g. produced by vibration	[71-]
39a2-27/10	. Gluing plastic materials (adhesive processes in general 22i2)	[71-]
39a2-27/12	. Press or force fitting using heat (for metals, or materials worked in a similar manner, 49i-19/00; force fits in general 47a1-4/00)	[71-]
39a2-27/14	. Applying or fixing layers or sheathings of preformed plastic material or of plastics, e.g. threads, sheets, foils, tubes	[71-]
39a2-27/16	. . to internal surfaces	[71-]
39a2-27/18	. . the shape of the layers or sheathings being adapted before application, to the outer of the articles	[71-]
39a2-27/20	. . . making use of the thermoplastic memory of the layers or sheathings	[71-]
39a2-27/22	. . the layers or sheathings being shaped by application to the articles (39a2-27/16 takes precedence)	[71-]
39a2-27/24	. . . using tubular layers or sheathings	[71-]
39a2-27/26	. . Winding or wrapping with threads or webs (39a2-27/16 takes precedence; winding, wrapping by winding, in general, 47h)	[71-]
39a2-27/28	. . . of tubular articles	[71-]
39a2-27/30	. Fixing preformed plastic material, or preformed plastics, to articles made from other material, e.g. to pivots made from steel	[71-]
39a2-29/00	Recovery or processing of used plastic materials; Recovery of non-plastic constituents of articles made from plastic material	[71-]
39a3	(IPC: B29D) Framställning av speciella föremål	[62-]
39a3-1/00	Föremål med skruvgångor	[62-]
39a3-3/00	Föremål med inlägg	[62-]
39a3-3/02	. med förstärkningar; Förstärkta genomskinliga folier	[62-]
39a3-5/00	Blixtlås; Fästande av blixtlåsdelar vid band (blixtlås allmänt 3c-3/01, 44a-53/01, 44a1-19/00; av plåt 7c-45/02; framställning genom gjutning av metall 31c, 31b2-17/16)	[62-]
39a3-7/00	Filmer; Folier; Plattor (porösa eller cellformiga folier 39a3-27/00)	[62-]
39a3-7/02	. Framställning genom gjutning eller strängsprutning	[62-]
39a3-7/04	. . Konstruktion av munstycket	[62-]
39a3-7/06	. . utan användning av gjutunderlag	[62-]
39a3-7/08	. . med användning av gjutunderlag	[62-]
39a3-7/10	. . . med användning av gjutvalsmaskiner	[62-]
39a3-7/12	. . . med användning av gjutband	[62-]
39a3-7/14	. Framställning med hjälp av valsning (kalandrering)	[62-]
39a3-7/16	. Framställning genom uppskärning av rörformigt material, t.ex. av uppblåsta slangar	[62-]
39a3-7/18	. Framställning genom skärning av blockformigt material	[62-]
39a3-7/20	. Efterbehandling av filmer, folier eller plattor, t.ex. våtbehandling eller torkning	[62-]
39a3-7/22	. . Modifiering eller stabilisering av deras yta, form eller storlek	[62-]
39a3-7/24	. . . Sträckning av filmer eller folier	[62-]
39a3-7/26	. Upplindning av film eller folier (upplindning i allmänhet 47k)	[62-]
39a3-9/00	Laminerade folier eller andra laminat som helt eller delvis består av plastmaterial (kryssfananer 38c; föremål av eller fästa vid gummi 39a6)	[62-]
39a3-9/02	. Laminerat glas	[62-71]
39a3-9/04	. . Förslutning av kanterna på laminerat glas	[62-71]
39a3-9/02	. Framställning med hjälp av valsar, t.ex. uppvärmda	[71-]
39a3-9/04	. Framställning med hjälp tryckluft	[71-]

39a3-9/06	. Framställning med hjälp av pressar	[71-]
39a3-9/08	. Framställning genom överdragning med pastaformiga eller pulverformiga plastmaterial	[71-]
39a3-9/10	. med diskontinuerliga lager, t.ex. sammansatt av rördelar	[71-]
39a3-11/00	Optiska element, t.ex. linser eller prismor (optiska elements konstruktion 42h)	[62-]
39a3-11/02	. Konstgjorda ögon av plast	[62-]
39a3-12/00	Ramar	[71-]
39a3-12/02	. Glasögonramar (utförning 42h)	[71-]
39a3-13/00	Glasögonbågar (konstruktion 42h)	[62-71]
39a3-15/00	Kugghjul	[62-]
39a3-17/00	Bärare för ljudupptagning, t.ex. plattor eller valsar	[62-]
39a3-19/00	Knappar; Knappämnen	[62-]
39a3-19/02	. Framställning i formar	[62-]
39a3-19/04	. Framställning genom skärning, fräsning, svarvning, prägling eller stansning; Ytbehandling av knappar	[62-]
39a3-19/06	. . Anordningar för att frammata förformade delar till bearbetningsmaskinerna	[62-]
39a3-19/08	. . Hålslagning i knappar eller knappämnen	[62-]
39a3-21/00	Hårkammar	[62-]
39a3-21/02	. Framställning i formar	[62-]
39a3-21/04	. Framställning genom sågning, fräsning, skärning eller liknande arbetsmetoder	[62-]
39a3-21/06	. Polering	[62-]
39a3-23/00	Rörformiga föremål	[62-]
39a3-23/01	. using production methods peculiar to specific substances, e.g. to polyfluorhydrocarbons	[71-]
39a3-23/02	. Framställning genom formsprutning	[62-]
39a3-23/03	. by blowing material against the inside surface of the mould, the fluid pressure acting directly on the material, e.g. forming hollow bodies	[71-]
39a3-23/04	. Framställning genom strängsprutning	[62-]
39a3-23/05	. . over reinforcements	[71-]
39a3-23/06	. . ur spinnlösningar	[62-]
39a3-23/08	. Framställning genom gjutning	[62-]
39a3-23/10	. Framställning genom vikning av band eller folier vinkelrätt mot längdaxeln av det framställda rörformiga föremålet	[62-]
39a3-23/12	. Framställning genom lindning av band i spiral- eller skruvform (av papper 54c)	[62-]
39a3-23/13	. by drawing	[71-]
39a3-23/14	. Cigarmunstycken eller cigarettemunstycken	[62-]
39a3-23/16	. Framställning genom dragning	[62-71]
39a3-23/18	. Producing pleated hoses	[71-]
39a3-23/20	. Producing flexible squeeze tubes, e.g. for cosmetics	[71-]
39a3-25/00	Fribärande kupor eller kupoler	[62-]
39a3-27/00	Föremål eller folier med porformig eller cellformig uppbyggnad	[62-]
39a3-27/02	. Mixing or spraying devices specially adapted therefor	[71-]
39a3-27/04	. by casting	[71-]
39a3-27/06	. Making sponges, e.g. from viscose	[71-]
39a3-27/08	. by sintering porously (compactly 39a4-5/02)	[71-]
39a3-29/00	Drivremmar eller transportband (framställning av sådana av gummi 39a6-7/22)	[62-]
39a3-29/02	. with embedded unconnected reinforcements	[71-]
39a3-29/04	. Repairing driving or conveyer belts using similar methods	[71-]
39a3-31/00	Andra på egenartat sätt formade föremål (konstgjorda tänder 39b-14/02)	[62-]
39a3-31/02	. Lagerskålar	[62-]

39a4	(IPC: B29F) Förfaranden eller apparater speciellt avsedda för bearbetning av termoplastmassor	[62-]
39a4-1/00	Formsprutning (framställning av rörformiga kroppar genom formsprutning 39a3-23/02)	[62-]
39a4-1/02	. Spruthuvuden	[62-]
39a4-1/022	. . Dies	[71-]
39a4-1/03	. . Injector nozzles; Feed stopping equipment; Cleaning equipment	[71-]
39a4-1/04	. . Torpedkonstruktioner	[62-]
39a4-1/05	. . Cutting-off equipment for ingates	[71-]
39a4-1/06	. Anordningar för inpressning av massan i formen; Reglering av trycket på sprutmassan eller på formdelar	[62-]
39a4-1/08	. Upphetning eller kylning av sprutmassan	[62-]
39a4-1/10	. Överdragning av föremål genom formsprutning	[62-]
39a4-1/12	. of multicoloured stream of injected material; Moulds for injection moulding of multicoloured articles	[71-]
39a4-1/14	. Ejection means for moulded articles	[71-]
39a4-3/00	Strängsprutning (framställning av filmer genom strängsprutning 39a3-7/02)	[62-]
39a4-3/01	. Extrusion presses predominantly used for shaping of thermoplastic substances (special adaptations to the shaping of thermosetting substances 39a5-2/00; extrusion presses in general 58a-11/22)	[71-]
39a4-3/012	. . using rollers or discs	[71-]
39a4-3/014	. . using press rams	[71-]
39a4-3/02	. med strängsprutmaskiner förenade blandningsanordningar, knådningsanordningar eller transportanordningar	[62-]
39a4-3/03	. Venting, gas or steam exhausting devices combined with extrusion presses	[71-]
39a4-3/04	. Sprutmunstycken	[62-]
39a4-3/06	. Anordningar för pressande av massan genom munstycket; Reglering av trycket på massan som frampressas	[62-]
39a4-3/08	. Upphetning eller kylning av den massa eller materialsträng som frampressas	[62-]
39a4-3/10	. Överdragning av kärnor genom strängsprutning (överdragning av trådar med spinnlösningar eller smältor 29a-6/09)	[62-]
39a4-3/12	. Framställning av flerfärgad sträng	[62-]
39a4-5/00	Andra förfaranden eller apparater som är speciellt avsedda för formgivning av termoplastmassor, t.ex. sintring av pulverformiga ämnen	[62-]
39a4-5/02	. by sintering compactly (porously 39a3-27/06)	[71-]
39a5	(IPC: B29G) Förfaranden eller apparater speciellt avsedda för bearbetning av hårdbara plastmassor	[62-]
39a5-1/00	Formpressning	[62-]
39a5-2/00	Special adaptations of extrusion moulding to the shaping of thermosetting substances	[71-]
39a5-2/02	. of presses (extrusion presses in general 58a-11/22)	[71-]
39a5-3/00	Sprutpressformning	[62-71]
39a5-3/00	Injection moulding; Transfer moulding, i.e. from an injection chamber incorporated in the mould	[71-]
39a5-5/00	Formning av plastdränkta banor med hjälp av lågtrycksförfarande	[62-71]
39a5-5/00	Shaping resin-impregnated sheets, e.g. to corrugated form	[71-]
39a5-7/00	Andra förfaranden eller apparater speciellt avsedda för formgivning av hårdbara plastmassor	[62-]
39a5-7/02	. Producing porous or cellular articles or sheets	[71-]

39a6	(IPC: B29H) Förfaranden eller apparater speciellt avsedda för bearbetning av naturgummi eller konstgummi	[62-]
39a6-1/00	Framställning av rågummi, guttaperka eller liknande ämnen	[62-]
39a6-1/02	. Koaguleringsanordningar	[62-]
39a6-1/04	. Tvättanordningar för rågummi	[62-]
39a6-1/06	. Torkning eller rökning av rågummi	[62-]
39a6-1/08	. Uppspaltning av rågummibalar	[62-]
39a6-1/10	. Methods or apparatus specially adapted for mixing rubber with other substances, e.g. with solids, with fluids	[71-]
39a6-3/00	Formgivning av gummiföremål, allmänt	[62-]
39a6-3/02	. ur latex	[62-]
39a6-3/04	. genom doppning	[62-]
39a6-3/042	. . Moulds; Cores, e.g. formers	[71-]
39a6-3/044	. . Arrangements for removing the articles from the cores or formers	[71-]
39a6-3/06	. genom klippning, prägling, stansning, kapning eller skärning	[62-]
39a6-3/08	. by injection moulding	[71-]
39a6-3/10	. . by transfer moulding, i.e. from an injection chamber incorporated in the mould	[71-]
39a6-3/12	. . . the injection chamber being engaged directly by the reciprocating press-ram	[71-]
39a6-3/14	. . from a separate injection press adapted to be connected to the moulds	[71-]
39a6-5/00	Vulkanordningar för gummiföremål (för tandtekniska ändamål 30b-16/01)	[62-]
39a6-5/01	. Vulcanising processes	[71-]
39a6-5/012	. Vulcanising pans	[71-]
39a6-5/02	. för fordonsdäck	[62-]
39a6-5/04	. . för formning och vulkning av nya slitbanor på fordonsdäck [regummering]	[62-]
39a6-5/06	. . Anordningar för hopläggning och insättning av vulkkärnor i fordonsdäck före vulkning (insättning av en flat form i fordonsdäck innan de utsträcks till sin normala form 39a6-17/26)	[62-]
39a6-5/08	. . Anordningar för uttagande av kärnor ur fordonsdäck efter vulkningen; Öppnande eller slutande av vulkformar	[62-]
39a6-5/10	. för luftslangar	[62-]
39a6-5/12	. för skor	[62-]
39a6-5/14	. för värmeflaskor	[62-]
39a6-5/16	. för ställvis vulkning, t.ex. för reparation av fordonsdäck, luftslangar eller skor	[62-]
39a6-5/17	. . by applying patches	[71-]
39a6-5/18	. Kärnor för användning vid vulkning, t.ex. vulkblåsor	[62-]
39a6-5/20	. Vulkpressar med flera på varandra anordnade formar påverkade av en enda presstämpel	[62-]
39a6-5/22	. Värmeplattor för formpressar	[62-]
39a6-5/24	. med automatisk reglering av tid eller temperatur vid vulkningen	[62-]
39a6-5/26	. Vulkapparater där gummit värms med hjälp av ett högfrekvensfält	[62-]
39a6-5/28	. Anordningar för kontinuerlig vulkning	[62-]
39a6-5/30	. Anordningar för kallvulkning	[62-]
39a6-7/00	Framställning av speciella föremål eller material bestående av vulkat gummi (fordonsdäck 39a6-11/00, 39a6-13/00, 39a6-17/00; luftslangar 39a6-15/00; vulkanordningar 39a6-5/00 – 39a6-5/30)	[62-]
39a6-7/02	. Bollar eller liknande hålkroppar helt eller delvis av gummi (konstruktiv uppbyggnad 77a-37/00 – 77a-45/02)	[62-]
39a6-7/03	. . inflatable, e.g. toys, air cushions	[71-]
39a6-7/04	. . framställda genom utstansning av delar ur banor och hopfogning av delarnas kanter	[62-]
39a6-7/05	. . hot-water bottles (constructional form 30d-25/01)	[71-]
39a6-7/06	. Golfbollar	[62-]
39a6-7/08	. Skor; Skodelar (uppbyggnad 71a); För framställning av gummiklackar avsedda tillförselmaskiner för klackbitar	[62-]
39a6-7/10	. Värmeflaskor (konstruktion 30d-25/01)	[62-71]
39a6-7/12	. Ackumulatorkärl, t.ex. av hårdgummi	[62-]

39a6-7/14	. Rör; Slangar (luftslangar för fordonsdäck 39a6-15/00)	[62-]
39a6-7/15	. . Pleated hoses	[71-]
39a6-7/16	. Trådar	[62-]
39a6-7/18	. . framställda genom utskärning ur banor eller cylindrar	[62-]
39a6-7/20	. Porösa eller cellformiga föremål eller folier	[62-]
39a6-7/22	. Drivremmar (konstruktion 47d); Transportband (konstruktion 81e)	[62-]
39a6-7/24	. Golvbeläggningar	[62-]
39a6-7/26	. Gasmasker	[62-]
39a6-7/27	. Bathing caps	[71-]
39a6-7/28	. Ärmlappar	[62-]
39a6-8/00	Producing compound rubber sheet material, i.e. built-up from natural or synthetic rubber layers only	[71-]
39a6-9/00	Kombination av gummi med andra material (fordonsdäck 39a6-17/00)	[62-]
39a6-9/02	. Trådar, vävnader eller liknande ämnen, som behandlats med gummi eller latex (behandling av lösa fibrer 39b-5/18)	[62-]
39a6-9/04	. . Framställning av banor ur parallella trådar eller strängar utan inslagstrådar, sammanhållna av eller inbäddade i gummi	[62-]
39a6-9/06	. . Påsprutning av gummi på vävnader eller papper	[62-]
39a6-9/08	. . Överdragning av metalltråd med gummi	[62-]
39a6-9/10	. Förbindning av gummi med andra material, t.ex. metall, glas, läder; Påförande av gummi på sådana material (vid skotillverkning 71c-25/00, 71c-65/00)	[62-]
39a6-9/11	. . to articles, e.g. sleeves	[71-]
39a6-9/12	. . Framställning av tryckvalsar av gummi	[62-]
39a6-11/00	Framställning av massiva fordonsdäck (konstruktion 63e)	[62-]
39a6-13/00	Framställning av eftergivande inlägg i fordonsdäck av gummi; Införande av inläggen i fordonsdäcken	[62-]
39a6-15/00	Framställning av luftslangar	[62-]
39a6-15/02	. med två eller flera luftkammare eller luftceller, t.ex. säkerhetsslangar	[62-]
39a6-15/04	. Förbindning eller hopsvetsning av andarna på ovulkade luftslangar	[62-]
39a6-15/06	. Anordningar för uttagande av luft ur luftslangar	[62-]
39a6-17/00	Framställning av fordonsdäck eller delar till fordonsdäck (konstruktion 63e)	[62-]
39a6-17/02	. Uppbyggnad av fordonsdäck	[62-]
39a6-17/04	. . på runda kärnor, vars form ungefär motsvarar det färdiga däckets	[62-]
39a6-17/06	. . . Kärnor	[62-]
39a6-17/08	. . . Påtryckning av skikten vid uppbyggnaden av däcksamnet	[62-]
39a6-17/10	. . . Påförande av skikten; Styrning eller sträckning av skikten vid påförandet	[62-]
39a6-17/12	. . . Anbringande av kantvulsterna eller vulstkärnorna; Omslagning av vävlagren omkring vulsterna eller kärnorna	[62-]
39a6-17/14	. . genom uppbyggnad över cylindriska trummor	[62-]
39a6-17/16	. . . [Uppbyggnads]trummor	[62-]
39a6-17/18	. . . Fasttryckning av skikten vid uppbyggnad av däcksamnet	[62-]
39a6-17/20	. . . Påförande av skikten; Styrning eller sträckning av skikten vid påförandet	[62-]
39a6-17/22	. . . Anbringande av kantvulsterna eller vulstkärnorna; Omslagning av vävlagren omkring vulsterna eller kärnorna	[62-]
39a6-17/24	. . genom samtidig överdragning med väv- eller kordlager på två parallella på avstånd från varandra placerade kantvulster	[62-]
39a6-17/26	. Utsträckning till normal storlek av i platt form föreliggande däcksamnen, t.ex. uppbyggda på cylindriska trummor eller genom samtidig överdragning av två kantvulster	[62-]
39a6-17/28	. lordningställande av vävinlägg, t.ex. kordskikt eller vävskikt, för fordonsdäck; Behandling av inläggen före däckbyggandet (konstruktiv uppbyggnad av inläggen 63e; behandling av inläggen med gummi 39a6-9/02; framställning av banor ur parallella trådar eller strängar utan inslagstrådar, sammanhållna av eller inbäddade i gummi 39a6-9/04)	[62-]
39a6-17/30	. . Skärning av vävinläggen till önskad form	[62-]

39a6-17/32	. Framställning av kantvulster eller vulstkärnor; Behandling av kantvulster eller vulstkärnor före inbyggnad i däcken (konstruktiv uppbyggnad av kantvulster eller vulstkärnor 63e)	[62-]
39a6-17/34	. . Överdragning, t.ex. genom omlindning av vävmaterial kring kantvulsterna eller vulstkärnorna, t.ex. med skyddsremсор (samtidig överdragning av kantvulster eller vulstkärnor 39a6-17/24; omslagning av vävlagren omkring vulsterna eller kärnorna 39a6-17/12, 39a6-17/22)	[62-]
39a6-17/36	. Formgivning av ovulkade däckslitbanor, t.ex. vid regummering (anordningar för formning och vulkning av nya slitbanor 39a6-5/04)	[62-]
39a6-17/37	. . Applying bands of rubber treads, i.e. applying camel back	[71-]
39a6-17/372	. . Tyre spreaders	[71-]
39a6-17/38	. . Formgivning av slitbanor mot omhöljen	[62-]
39a6-17/40	. . Inskärning av däcksmönster	[62-]
39a6-19/00	Återvinning eller regenerering av gummi; Återvinning av andra ämnen än gummi ur gummiföremål	[62-]
39a6-19/02	. Avskiljande av gummiskikt från andra skikt, t.ex. skiljande av gummiskikt från vävskikt hos däck; Spaltning eller skärning av begagnade fordonsdäck	[62-]
39a6-19/022	. . by means of tools which are moved round the work	[71-]
39a6-19/024	. . by means of tools which are arranged stationary while work is moved	[71-]
39a6-19/04	. Återvinning av fibermaterial ur vulkat gummi, t.ex. från fordonsdäck (skiljande av skikten 39a6-19/02)	[62-]
39a6-19/06	. Finfördelning av gummiskrot	[62-]
39a6-21/00	Annan mekanisk bearbetning eller behandling av gummi	[62-]
39a6-21/01	. Devices for rasping, e.g. of treads of tyres	[71-]
39a6-21/02	. Utsmyckning; Märkning; Påförande av färg	[62-]
39a6-21/04	. Förhindrande av att gummiföremål häftar vid varandra eller vid andra föremål, t.ex. genom behandling med talk, genom uppruggning av ytan eller genom skiljemedel	[62-]
39a6-21/06	. . Maskiner för påförande av skiljemedel	[62-]
39a6-21/08	. Inskärning av räfflor i ytan (utom inskärning av räfflor i däck 39a6-17/40)	[62-]
39a7	(IPC: B29J) Förfaranden eller apparater speciellt avsedda för bearbetning av ämnen som inte omfattas av 39a4 – 39a6, t.ex. horn, elfenben eller svavel	[62-]
39a7-1/00	Formning av kasein, gelatin, horn, elfenben, svavel eller ämnen som inte omfattas av andra grupper (framställning av knappar 39a3-19/00; framställning av kapslar genom doppning 39a2-13/00)	[62-]
39a7-1/02	. containing large proportions of fibrous fillers (39a7-5/00 takes precedence)	[71-]
39a7-1/04	. . Making leather substitutes, e.g. with leather fillers (consisting of a fibrous web coated with a layer of macromolecular material 8h)	[71-]
39a7-3/00	Bearbetning av ämnen som innehåller avsevärda mängder fibermaterial och som inte omfattas av andra grupper	[62-71]
39a7-3/02	. Konstläder	[62-71]
39a7-3/04	. Konstträ	[62-64]
39a7-5/00	Tillverkning av spånskivor, fiberskivor eller andra av träspån eller fibrer formade föremål, med eller utan tillsats av organiska bindemedel (med oorganiska bindemedel 80a; anordningar för bearbetning av plaster 39a2, 39a4; sammansättningen av de använda ämnena i motsvarande kemiska klasser, t.ex. 39b-26/01, 39b-26/02, 39b6-15/02; efter samma metoder som vid papperstillverkning 54e)	[64-]
39a7-5/02	. Blandning av träspån med bindemedel	[64-]
39a7-5/04	. Formning och anslutande pressning för framställning av skivor eller förformade mattor eller fiberfällar (39a7-5/08 har företräde); Pressar speciellt utformade därför	[64-]
39a7-5/06	. Formning och anslutande pressning för framställning av ihåliga föremål, t.ex. skålar, askar; Pressar speciellt utformade därför	[64-]

39a7-5/08	. Anläggningar för kontinuerlig drift; Pressar speciellt utformade därför	[64-]
39a7-5/10	. . i vilka pressanordningen förflyttas tillsammans med materialet; Tillbehör därför	[64-]

39b Bearbetning av plastmaterial, elaster eller hornartade ämnen, som inte omfattas av andra klasser, kemisk del; Bromsmassor; Slipmassor; Termiska eller akustiska isolermassor [-68]

Anmärkning: [-68]
Denna subklass omfattar uppfinningar som avser massor, lösningar eller dispersioner framställda ur högmolekylära ämnen och förberedda för formgivning, eller kemiska aspekter av massornas bearbetning under formgivning. Material som innehåller flera högmolekylära ämnen klassas efter det ämne vars mängd överväger. [-68]

Gummi [naturgummi, dienpolymerer eller tioplaster]; Guttaperka; Balata [-68]

39b-1	Gummilatem, t.ex. konservering, fällning eller konstframställda dispersioner	[-68]
39b-2	Rågummi, t.ex. rening eller blekning	[-68]
39b-3	Gummiderivat, t.ex. halogenering (22h-3)	[-68]
39b-4/01	Bearbetning av polymerisat ur föreningar med flera konjugerade dubbelbindningar, t.ex. butadienpolymerisat eller klorbutadienpolymerisat (framställning av polymererna 39c-25/05; mekanisk bearbetning 39a6)	[-68]
39b-4/03	Bearbetning av kondensationsprodukter av polysulfider (framställning 39c-21)	[-68]
39b-5/01	Gummimassor, allmänt	[-68]
39b-5/02	Gummihaltiga bromsmassor eller slipmassor	[-68]
39b-5/04	Hårdgummimassor	[-68]
39b-5/05	Gummilatemblandningar, t.ex. blandningar med vattenbindande ämnen eller kornformiga koagulat	[-68]
39b-5/07	Användning av fyllmedel, mjukningsmedel, utdrysningssmedel, dispergeringsmedel eller stabiliseringsmedel i gummiblandningar eller gummilatemblandningar; Blandningsförfaranden	[-68]
39b-5/10	Färgning av gummi	[-68]
39b-5/11	Organiska gummilösningar eller gummilösningssmedel; Ändring av gummilösningars viskositet	[-68]
39b-5/14	Formningsförfaranden; Kalandrering; Sprutning; Bstrykning; Doppning (39a)	[-62]
39b-5/14	Formning med hjälp av kemiska medel	[62-68]
39b-5/15	Gummitrådar	[-68]
39b-5/18	Gummi i förbindning med fibermaterial, t.ex. inblandning av fibermaterial i gummi eller impregnering eller överdragning av fiberskikt eller vävbanor med gummi eller gummiblandningar	[-68]
39b-5/20	Förbindning av gummi med gummi eller med andra material, t.ex. trä, metall eller glas; överdrag på eller av gummi; lackering av gummiytor	[-68]
39b-6	Kallvulkning	[-68]
39b-7	Varmvulkning	[-68]
39b-8	Vulkacceleratorer; Antioxidanter	[-68]
39b-9	Porösa gummimassor	[-68]
39b-10	Regenerering av gummi	[-68]
39b-11	Faktis	[-68]

Plastmaterial av cellulosa eller cellulosaederivat [-68]

39b-12/01	Cellulosaestermassor; Cellulosaestermassor; Lösningssmedel, mjukningsmedel eller gelatineringsmedel för sådana massor	[-68]
39b-12/02	Svårantändliga cellulosaestermassor eller cellulosaestermassor	[-68]
39b-12/03	Flaskkapsyler av cellulosaederivat eller viskos	[-68]
39b-12/04	Viskositetsnedsättning av cellulosaederivat	[-68]
39b-13	Tillgodogörande av avfall av cellulosaestermassor	[-68]

39b-14	Viskosplastmassor (flaskkapsyler av viskos 39b-12/03)	[68]
39b-15	Plaster av kopparoxidammoniakcellulosa; Vulkanfiber	[68]
	Andra plastmaterial	[-68]
39b-16	av stärkelse	[68]
39b-17	av lim eller gelatin; Härdning av sådana material	[68]
39b-18	av kasein	[68]
39b-19	av andra äggviteämnen än kasein, t.ex. blod	[68]
39b-20	av jäst	[68]
39b-21	av naturhartser	[68]
39b-22/01	av konsthartser i allmänhet	[-62]
39b-22/01	av plaster i allmänhet, t.ex. om ämnen från minst två av grupperna 39b-22/02 – 39b-22/10 ingår eller från minst en av grupperna 39b-22/02 – 39b-22/10 och minst en annan grupp; Icke gummihaltiga laminerade folier eller andra laminat, om plastmaterial från minst två av grupperna 39b-12 – 39b-26 ingår, varav minst ett plastmaterial ur grupperna 39b-22/02 – 39b-22/10 (laminerade folier eller andra laminat med minst ett gummiskikt 39b-5/20; klisterfolier 22i-2)	[62-68]
39b-22/02	av fenolhartser (framställning av fenolhartser 39c-1, 39c-2)	[-62]
39b-22/02	av fenol-aldehyd-plaster eller fenol-keton-plaster	[62-68]
39b-22/04	av kvävehaltiga konsthartser (framställning av kvävehaltiga konsthartser 39c-5 – 39c-15)	[-62]
39b-22/04	av kvävehaltiga plaster som inte omfattas av 39b-22/06 och inte innehåller något grundämne utöver kväve, kol, väte, syre, svavel eller halogen	[62-68]
39b-22/06	av hartsartade polymerisat av omättade organiska föreningar med en dubbelbindning, t.ex. polyvinylföreningar (framställning av sådana polymerisat 39c-25/01)	[-58]
39b-22/06	av hartsartade polymerisat av omättade organiska föreningar med en dubbelbindning, t.ex. polyvinylföreningar (framställning av sådana polymerisat 39c-25/01); av polyvinyletrar, polyvinylketoner, polyvinylaminer, polyvinylkarbazol e.d.; av polymerisat av akrylsyra, maleinsyra e.d. eller deras derivat; av polyvinylestrar eller polyvinylidenestrar; av polymeriserade omättade kolväten, t.ex. styrol, etylen eller inden, eller närbesläktade föreningar. t.ex. kumaron; av sampolymerisat; lösningsmedel för vinylhartser; allmänna metoder eller förfaranden som avser två eller flera av förutnämnda ämnen	[58-62]
39b-22/06	av plaster som framställts genom polymerisation av omättade organiska föreningar med en eller flera icke-konjugerade kol-kol-dubbelbindningar och som inte innehåller andra grundämnena än kol, väte, syre, kväve, svavel eller halogen	[62-68]
39b-22/10	av andra konsthartser, t.ex. plaster av alkydhartser, ligninhartser, aldehydhartser eller kiselhartser	[-62]
39b-22/10	av andra plaster, t.ex. mättade eller omättade polyestrar; av polykarbonater, polyetrar, polyepoxider; av plaster som utom kol, väte, syre, kväve, svavel eller halogener även innehåller andra grundämnena	[62-68]
39b-23	av oljor, fetter, parafin eller vaxer	[68]
39b-24	av asfalt, tjäror eller beck (för byggnadsändamål, t.ex. vägbyggnadsändamål 80b-25)	[-68]
39b-25	av horn eller andra keratinhaltiga material, av elfenben, av stennöt	[-68]
39b-26/01	av animaliskt hudavfall, köttavfall eller läderavfall bestående massor utan bindemedel, t.ex. som läderersättning (med bindemedel 39b-1 – 39b-25, 39b-26/02; av andra organiska råvaror utan bindemedel 39b-26/02; konstläder framställt genom impregnering av textilmaterial 8I-2)	[-68]
39b-26/02	av andra organiska utgångsmaterial än hudavfall, köttavfall eller läderavfall bestående massor utan bindemedel, med bindemedel som inte omfattas av 39b-1 – 39b-25 eller med speciella fyllmedel; Ersättningsmedel för is eller snö för sportändamål eller dekorationsändamål; Konstträ; Dextranplaster; Uronsyraplaster	[62-68]
39b-27	Splittersäkert glas eller säkerhetsglas, kemisk del (mekanisk del 20c-39; 39a-17; 63a-7; 63c-44, 58; 63g-16; pansarglas 72g-3/04)	[-62]

39b1	(IPC: C08B) Polysaccharides and their derivatives	[68-]
<u>Preparation</u>		[68-]
39b1-1/00	Preparatory treatment of cellulose for making derivatives thereof	[68-]
39b1-1/02	. Rendering cellulose suitable for esterification	[68-]
39b1-1/04	. . for the preparation of cellulose nitrate	[68-]
39b1-1/06	. Rendering cellulose suitable for etherification	[68-]
39b1-1/08	. alkali cellulose	[68-]
39b1-1/10	. . Apparatus for the preparation of alkali cellulose	[68-]
39b1-1/12	. . . Steeping devices	[68-]
39b1-1/14	. . . Ripening devices	[68-]
39b1-3/00	Preparation of cellulose esters of organic acids	[68-]
39b1-3/02	. Catalysts used for the esterification	[68-]
39b1-3/04	. cellulose formate	[68-]
39b1-3/06	. cellulose acetate	[68-]
39b1-3/08	. of monobasic organic acids with three or more carbon atoms	[68-]
39b1-3/10	. . with five or more carbon atoms	[68-]
39b1-3/12	. of polybasic organic acids	[68-]
39b1-3/14	. in which the organic acid residue contains substituents, e.g. NH ₂ , Cl	[68-]
39b1-3/16	. Preparation of mixed organic cellulose esters	[68-]
39b1-3/18	. . Aceto-butyrate	[68-]
39b1-3/20	. Esterification with maintenance of the fibrous structure of the cellulose (surface esterification of textiles 8k-1/30)	[68-]
39b1-3/22	. Post-esterification treatments, including purification	[68-]
39b1-3/24	. . Hydrolysis or ripening	[68-]
39b1-3/26	. . Isolation of the cellulose ester	[68-]
39b1-3/28	. . . by precipitation	[68-]
39b1-3/30	. . Stabilising (by addition of stabilisers 39b1-27/62)	[68-]
39b1-3/32	. Recovery of waste materials	[68-]
39b1-5/00	Preparation of cellulose esters of inorganic acids	[68-]
39b1-5/02	. cellulose nitrate	[68-]
39b1-5/04	. . post-esterification treatments, including purification	[68-]
39b1-5/06	. . . Isolation of the cellulose nitrate	[68-]
39b1-5/08	. . . Stabilisation (by addition of stabilisers 39b1-27/62)	[68-]
39b1-5/10	. . . Reducing the viscosity	[68-]
39b1-5/12	. . . Replacing the water by organic liquids	[68-]
39b1-5/14	. cellulose sulphate	[68-]
39b1-5/16	. Recovery of waste materials	[68-]
39b1-7/00	Preparation of cellulose esters of both organic and inorganic acids	[68-]
39b1-9/00	Cellulose xanthate; Viscose	[68-]
39b1-9/02	. Sulphidisers; Dissolvers	[68-]
39b1-9/04	. Continuous processes	[68-]
39b1-9/06	. Single-stage processes	[68-]
39b1-9/08	. Recovery of waste materials	[68-]
39b1-11/00	Preparation of cellulose ethers	[68-]
39b1-11/02	. alkyl or cycloalkyl ethers	[68-]
39b1-11/04	. . with substituted hydrocarbon radicals	[68-]
39b1-11/06	. . . with halogen-substituted hydrocarbon radicals	[68-]
39b1-11/08	. . . with hydroxylated hydrocarbon radicals; Esters, ethers, or acetals thereof	[68-]
39b1-11/10	. . . substituted with acid radicals	[68-]
39b1-11/12	. . . . substituted with carboxylic radicals	[68-]
39b1-11/14	. . . with nitrogen-containing groups	[68-]
39b1-11/16	. aryl or aralkyl ethers	[68-]
39b1-11/18	. . with substituted hydrocarbon radicals	[68-]
39b1-11/20	. Post-etherification treatments, including purification	[68-]
39b1-11/22	. . Isolation	[68-]

39b1-13/00	Preparation of cellulose ether-esters	[68-]
39b1-13/02	. cellulose ether xanthat	[68-]
39b1-15/00	Preparation of other cellulose derivatives or modified cellulose	[68-]
39b1-15/02	. oxycellulose; hydrocellulose; cellulose hydrate	[68-]
39b1-15/04	. . carboxycellulose, e.g. prepared by oxidation with nitrogen dioxide	[68-]
39b1-15/06	. Nitrogen derivatives	[68-]
39b1-17/00	Apparatus for esterification or etherification of cellulose	[68-]
39b1-17/02	. for making organic esters of cellulose	[68-]
39b1-17/04	. for making cellulose nitrate	[68-]
39b1-17/06	. for making cellulose ethers	[68-]
39b1-19/00	Preparation of polysaccharides (cellulose 55b; starch, dextrin, and similar carbohydrates 89k); Derivatives of polysaccharides other than cellulose	[68-]
39b1-19/02	. sulphates of polysaccharides	[68-]
39b1-19/03	. . Heparin	[68-]
39b1-19/04	. derivatives of starch (sulphates 39b1-19/02)	[68-]
39b1-19/06	. . starch ethers	[68-]
39b1-19/08	. dextran and its derivatives (sulphates 39b1-19/02)	[68-]
39b1-19/10	. alginic acid; derivatives thereof (sulphates 39b1-19/02; foodstuff preparations 53k)	[68-]
39b1-19/12	. derivatives of pectin (sulphates 39b1-19/02; foodstuff preparations 53k-1/02)	[68-]
39b1-19/14	. chitin and related compounds; derivatives thereof (sulphates 39b1-19/02)	[68-]
39b1-19/16	. derivatives of agar-agar	[68-]
Compositions		[68-]
39b1-21/00	Compositions based essentially on cellulose derivatives	[68-]
39b1-21/02	. based on cellulose esters of organic acids	[68-]
39b1-21/04	. . on cellulose acetate	[68-]
39b1-21/06	. . on mixed esters, e.g. cellulose acetate-butyrate	[68-]
39b1-21/08	. . on esters mixed with other macromolecular compounds	[68-]
39b1-21/10	. based on cellulose esters of inorganic acids	[68-]
39b1-21/12	. . on cellulose nitrate	[68-]
39b1-21/14	. . on esters mixed with other macromolecular compounds	[68-]
39b1-21/16	. based on cellulose esters of both organic and inorganic acids	[68-]
39b1-21/18	. based on cellulose xanthate	[68-]
39b1-21/20	. . on viscose	[68-]
39b1-21/22	. . on cellulose xanthate mixed with other macromolecular compounds	[68-]
39b1-21/24	. based on cellulose ethers	[68-]
39b1-21/26	. . on alkyl ethers	[68-]
39b1-21/28	. . on aryl or aralkyl ethers	[68-]
39b1-21/30	. . on ethers containing carboxyl groups	[68-]
39b1-21/32	. . on mixtures of ethers with other macromolecular compounds	[68-]
39b1-21/34	. based on cellulose ether esters	[68-]
39b1-23/00	Compositions based essentially on cellulose or modified cellulose	[68-]
39b1-23/02	. based on oxycellulose or hydrocellulose	[68-]
39b1-23/04	. based on cellulose hydrate	[68-]
39b1-25/00	Compositions based essentially on polysaccharides, other than cellulose, or their derivatives	[68-]
39b1-25/02	. based on starch or its derivatives or its degradation products, e.g. dextrine	[68-]
39b1-25/04	. based on dextran or its derivatives	[68-]
39b1-25/06	. based on pectin or its derivatives	[68-]

39b1-27/00 Other compounding ingredients (39b1-21/08, 39b1-21/14, 39b1-21/22, 39b1-21/32 take precedence) [68-]

Note: [68-]
An ingredient is always classified in the last appropriate place [68-]

- 39b1-27/02 . Inert fillers or pigments [68-]
- 39b1-27/04 . . inorganic [68-]
- 39b1-27/06 . . . Clay [68-]
- 39b1-27/08 . . . carbon, e.g. carbon black, charcoal, coke, graphite [68-]
- 39b1-27/10 . . . fibrous [68-]
- 39b1-27/12 . . . Abrasive fillers [68-]
- 39b1-27/14 . . organic [68-]
- 39b1-27/16 . . . fibrous [68-]
- 39b1-27/18 cellulosic, e.g. wood-flour [68-]
- 39b1-27/20 . . . Cork [68-]
- 39b1-27/22 . Plasticisers, Solvents; Swelling agents [68-]
- 39b1-27/24 . . Inorganic compounds [68-]
- 39b1-27/26 . . . Aqueous solutions [68-]
- 39b1-27/28 of zinc compounds [68-]
- 39b1-27/30 of copper compounds [68-]
- 39b1-27/32 of sulphuric acid [68-]
- 39b1-27/34 . . Organic compounds [68-]
- 39b1-27/36 . . . Hydrocarbons [68-]
- 39b1-27/38 . . . Halogenated hydrocarbons [68-]
- 39b1-27/40 . . . containing oxygen with or without halogen [68-]
- 39b1-27/42 Hydroxyl compounds; Metal compounds thereof; Ethers; Aldehydes; Ketones; Acetals; Ketals [68-]
- 39b1-27/44 Carboxylic acids; Salts or esters thereof [68-]
- 39b1-27/46 Esters prepared from acyclic polycarboxylic acids [68-]
- 39b1-27/48 Esters prepared from cyclic carboxylic acids or cyclic alcohols [68-]
- 39b1-27/50 Ether-esters [68-]
- 39b1-27/52 . . . containing nitrogen, or nitrogen and oxygen, with or without halogen [68-]
- 39b1-27/54 . . . containing sulphur, or sulphur and oxygen, with or without halogen [68-]
- 39b1-27/56 . . . containing sulphur and nitrogen, with or without oxygen and/or halogen [68-]
- 39b1-27/58 . . . containing phosphorus, silicon, or boron [68-]
- 39b1-27/60 . . . Mineral oil products or conversion products thereof, e.g. paraffin wax, asphalt, bitumen, pitch [68-]
- 39b1-27/62 . Stabilisers [68-]
- 39b1-27/64 . . inorganic [68-]
- 39b1-27/66 . . organic [68-]
- 39b1-27/68 . . . containing nitrogen [68-]
- 39b1-27/70 . . . organo-metallic compounds [68-]
- 39b1-27/72 . Hardening agents, e.g. isocyanates [68-]
- 39b1-27/74 . Pesticides, e.g. bactericides, fungicides [68-]
- 39b1-27/76 . Dyes; Lakes [68-]

Working-up [68-]

39b1-29/00 Methods of treating polysaccharides or their derivatives or compositions containing them to produce articles or materials, chemical part [68-]

- 39b1-29/02 . Powdering or granulating [68-]
- 39b1-29/03 . . by dissolving and precipitating [68-]
- 39b1-29/04 . Colouring (dyeing solids 8m) [68-]
- 39b1-29/06 . . Colouring particles for making pigments [68-]
- 39b1-29/08 . Decolourising [68-]
- 39b1-29/10 . Working-up to porous or cellular articles or masses [68-]
- 39b1-29/12 . . Working-up viscose [68-]
- 39b1-29/14 . Chemical features in the manufacture of articles, including material in sheet form (in manufacture of laminates 39b7) [68-]
- 39b1-29/16 . . from cellulose esters of organic acids [68-]
- 39b1-29/18 . . from cellulose esters of inorganic acids [68-]

39b1-29/20	. . from solutions of cellulose	[68-]
39b1-29/22	. . . from viscose	[68-]
39b1-29/24	. . . from cuprammonium solutions	[68-]
39b1-29/26	. . from cellulose ethers	[68-]
39b1-29/28	. . from polysaccharides, other than cellulose, or derivatives thereof	[68-]
39b1-29/30	. . in making films or sheets	[68-]
39b1-29/32	. . in making tubular bodies	[68-]
39b1-29/34	. Dispersing polysaccharides or their derivatives	[68-]
39b1-29/36	. . with the aid or dispersing agents	[68-]
39b1-29/38	. Treatment of formed articles or materials	[68-]
39b1-29/40	. Recovery of waste materials	[68-]
39b1-29/42	. . of solvents or plasticisers	[68-]
39b2	(IPC: C08C) Natural rubbers and their derivatives	[68-]
<u>Preparation</u>		[68-]
39b2-1/00	Treatment of rubber latex	[68-]
39b2-1/02	. Chemical or physical treatment of rubber latex before and/or during concentration	[68-]
39b2-1/04	. . Purifying; Deproteinising	[68-]
39b2-1/06	. . Preservation of rubber latex (with additives 39b2-7/00)	[68-]
39b2-1/08	. . Concentrating with the aid of creaming agents	[68-]
39b2-1/10	. . Concentrating by centrifugation	[68-]
39b2-1/12	. . Concentrating by evaporation	[68-]
39b2-1/14	. Coagulation	[68-]
39b2-1/16	. . in floc form	[68-]
39b2-1/18	. Preparation of artificial latex by dispersing rubber in water	[68-]
39b2-3/00	Treatment, e.g. purifying, coagulated crude natural rubbers	[68-]
39b2-5/00	Preparation of derivatives from natural rubber	[68-]
39b2-5/02	. with halogens	[68-]
39b2-5/04	. with hydrohalides	[68-]
39b2-5/06	. with non-metal oxides, e.g. sulphur dioxide, phosphorus trioxide, nitrogen trioxide	[68-]
<u>Compositions</u>		[68-]
39b2-7/00	Compositions based essentially on unvulcanised or vulcanised latex	[68-]
39b2-7/02	. Compounding ingredients	[68-]
39b2-7/04	. . Pre-treated compounding ingredients	[68-]
39b2-7/06	. . Cements; Mortars; Plaster	[68-]
39b2-7/08	. . Loose fibres, e.g. of cellulose, leather, asbestos	[68-]
39b2-7/10	. . Stabilisers, including pH-value-regulating agents	[68-]
39b2-7/12	. . Pesticides, e.g. fungicides. bactericides	[68-]
39b2-7/14	. . Colloidal thickening agents	[68-]
39b2-7/16	. . Sensitising agents, i.e. heat-latent coagulants (39b2-1/14 takes precedence)	[68-]
39b2-7/18	. . Surface-active agents, including antifoaming agents	[68-]
39b2-9/00	Compositions based essentially on unvulcanised natural rubber with or without synthetic rubber (39b2-15/00 takes precedence)	[68-]
39b2-9/02	. on natural rubber components other than Hevea rubber	[68-]
39b2-9/04	. with synthetic rubber	[68-]
39b2-9/06	. with other macromolecular compounds	[68-]
39b2-9/08	. . Unvulcanised derivatives of natural or synthetic rubber	[68-]
39b2-9/10	. . Vulcanised natural or synthetic rubber	[68-]
39b2-9/12	. . Polysaccharides or derivatives thereof	[68-]
39b2-9/14	. . Polymers or copolymers	[68-]
39b2-9/16	. . Polycondensation or polyaddition products	[68-]
39b2-9/18	. . Natural resins	[68-]
39b2-9/20	. . Factice	[68-]
39b2-11/00	Other compounding ingredients	[68-]
39b2-11/02	. Pre-treated compounding ingredients	[68-]

	Note:	[68-]
	An ingredient is always classified in the last appropriate place	[68-]
39b2-11/04	. inorganic	[68-]
39b2-11/06	. . Oxides; Hydroxides	[68-]
39b2-11/08	. . . Metal oxides	[68-]
39b2-11/10	. . . Silica and its hydrates	[68-]
39b2-11/12	. . Silicates	[68-]
39b2-11/14	. . . Clay	[68-]
39b2-11/16	. . Fibrous material, e.g. asbestos	[68-]
39b2-11/18	. . Carbon, e.g. carbon black, charcoal, coke, graphite	[68-]
39b2-11/20	. organic	[68-]
39b2-11/22	. . Hydrocarbons	[68-]
39b2-11/24	. . Halogenated hydrocarbons	[68-]
39b2-11/26	. . containing oxygen with or without halogen	[68-]
39b2-11/28	. . . Hydroxyl compounds; Metal compounds thereof	[68-]
39b2-11/30	. . . . Containing phenolic hydroxyl groups	[68-]
39b2-11/32	. . . Ethers; Acetals; Aldehydes; Ketones; Ketals	[68-]
39b2-11/34	. . . Carboxylic acids; Metal salts thereof; Anhydrides	[68-]
39b2-11/36	. . . Esters; Ether-esters	[68-]
39b2-11/38	. . . . from acyclic polycarboxylic acids	[68-]
39b2-11/40	. . containing nitrogen, or nitrogen and oxygen, with or without halogen	[68-]
39b2-11/42	. . . Nitro compounds	[68-]
39b2-11/44	. . . Amines; Imides; Amides	[68-]
39b2-11/46	. . . . with aromatically-bound amino groups	[68-]
39b2-11/48	. . . Urea; Derivatives thereof	[68-]
39b2-11/50	. . . Guanidine; Derivatives thereof	[68-]
39b2-11/52	. . . Heterocyclic oxygen compounds containing nitrogen with or without oxygen as hetero atoms	[68-]
39b2-11/54	. . containing sulphur or selenium with or without nitrogen, oxygen and halogen	[68-]
39b2-11/56	. . . Thiuram sulphides	[68-]
39b2-11/58	. . . Thiocarbamates	[68-]
39b2-11/60	. . . Heterocyclic compounds containing sulphur with or without nitrogen or oxygen as hetero atoms	[68-]
39b2-11/62	. . . . Thiazoles	[68-]
39b2-11/64	. . Organo-metallic compounds	[68-]
39b2-11/66	. . Phosphorus, arsenic, antimony, silicon, or boron compounds	[68-]
39b2-11/68	. . Hydrocarbon oil products, e.g. asphalt, bitumen, pitch, coal tar; Conversion products thereof	[68-]
39b2-11/70	. . Waxes, e.g. paraffin waxes; Natural waxes	[68-]
39b2-11/72	. . Vegetable and animal oils and fats	[68-]
39b2-11/74	. . Loose fibrous material, e.g. hair, straw, wood-flour; Cork particles	[68-]
39b2-11/76	. . Dyes; Lakes	[68-]
39b2-13/00	Compositions based essentially on derivatives of natural rubber (on mixtures with other natural rubber components 39b2-9/08; with synthetic rubber or its derivatives 39b3)	[68-]
39b2-13/02	. Plasticisers	[68-]
39b2-13/04	. . for halogenated rubber	[68-]
39b2-13/06	. . for hydrohalogenated rubber	[68-]
39b2-13/08	. Stabilisers	[68-]
39b2-13/10	. . for halogenated rubber	[68-]
39b2-13/12	. . for hydrohalogenated rubber	[68-]
39b2-15/00	Compositions based essentially on reclaimed vulcanised natural or synthetic rubber	[68-]

Working-up [68-]

39b2-17/00 Chemical features in the manufacture of articles or materials from rubber or rubber derivatives (in the manufacture of layered products 39b7-1/36) [68-]

- 39b2-17/02 . in the manufacture of threads from rubber [68-]
- 39b2-17/04 . . from latex [68-]
- 39b2-17/06 . in the direct processing of latex to rubber articles [68-]
- 39b2-17/08 . in the manufacture of porous or cellular articles or materials [68-]
- 39b2-17/10 . . with the aid or blowing agents [68-]
- 39b2-17/12 . . with the aid of soluble particles to be leached out [68-]
- 39b2-17/14 . . from undried coagulum or gel [68-]
- 39b2-17/16 . in the treatment of threads, fabrics, or other coherent fibrous material with rubber or derivatives thereof [68-]
- 39b2-17/18 . . with latex [68-]
- 39b2-17/20 . in the bonding of rubber to other materials, e.g. metal, glass, leather (joining glass to glass with the aid of synthetic rubber 32b-27/10) [68-]
- 39b2-17/22 . in plasticising rubber (by addition of plasticisers 39b2-11/00) [68-]
- 39b2-17/24 . in the coating of rubber [68-]
- 39b2-17/26 . in the surface treatment, e.g. halogenation of rubber [68-]
- 39b2-17/28 . Chemical vulcanisation, e.g. Peachey process [68-]
- 39b2-17/30 . from reaction products of rubber with halogens, acids or acid anhydrides, e.g. sulphur dioxide (manufacture of artificial threads 29b) [68-]
- 39b2-17/32 . . from halogenated or hydrohalogenated rubber [68-]
- 39b2-17/34 . . in making films or sheets [68-]
- 39b2-17/36 . in the manufacture of abrasive or friction articles or materials [68-]
- 39b2-17/38 . Recovery of waste materials [68-]

39b3 (IPC: C08D) Synthetic rubbers [68-]

Note: [68-]
For the purpose of this classification system, the term "synthetic rubbers" is restricted to rubbery vulcanisable products obtained by the polymerisation of a conjugated diene, if desired together with one or more other unsaturated monomers. Thus, polyisobutylene (which is not vulcanisable) will not be found here but in 39b4, silicone rubbers, polyalkylene polysulphides and isocyanate modified polyamides will be found in 39b5, factice in 39b6 and liquid polymers of conjugated dienes in 39b4. [68-]

Preparation [68-]

39b3-1/00 Methods of polymerisation, including polymerisation by irradiation [68-]

- 39b3-1/02 . Thermal polymerisation [68-]
- 39b3-1/04 . Polymerisation of monomers in solution [68-]
- 39b3-1/05 . . with the use of dispersing agents for the polymers [68-]
- 39b3-1/07 . Polymerisation of monomers in non-solvents to produce polymers in granular form, i.e. suspension polymerisation [68-]
- 39b3-1/09 . Emulsion polymerisation [68-]
- 39b3-1/12 . Catalytic polymerisation [68-]
- 39b3-1/14 . . using reaction products or mixtures or complexes of (1) metallic compounds reducible to a lower valency with (2) reducing agents, e.g. Ziegler-type catalysts [68-]
- 39b3-1/16 . . using other catalysts [68-]
- 39b3-1/18 . . . metals [68-]
- 39b3-1/20 alkali metals [68-]
- 39b3-1/22 . . . oxygen or oxygen-generating compounds, e.g. persalts, peroxides (39b3-1/24 takes precedence) [68-]
- 39b3-1/24 . . . redox systems [68-]
- 39b3-1/26 . . . other inorganic catalysts [68-]
- 39b3-1/28 acids; salts; mixtures thereof [68-]

39b3-1/30	. . . . inorganic halides, other than hydrogen halides, or complexes thereof	[68-]
39b3-1/32	. . . other organic catalysts	[68-]
39b3-1/34	. . . . Nitriles of azo compounds	[68-]
39b3-1/36	. using regulators, e.g. chain-stopping agents	[68-]
39b3-1/38	. using polymerisation retarders	[68-]
39b3-3/00	Nature of starting materials	[68-]
39b3-3/02	. Mixtures of monomers (39b3-3/04 takes precedence)	[68-]
39b3-3/04	. Hydrocarbons	[68-]
39b3-3/06	. . Butadiene	[68-]
39b3-3/08	. . . Stereospecific polymers	[68-]
39b3-3/10	. . Isoprene	[68-]
39b3-3/12	. . . Stereospecific polymers	[68-]
39b3-3/14	. Halogen-substituted hydrocarbons	[68-]
39b3-5/00	After-treatment of polymers or copolymers before vulcanisation, e.g. purifying (plasticising 39b3-13/22; stabilisers 39b3-39b2)	[68-]
39b3-5/02	. After-treatment with chemicals	[68-]
39b3-5/04	. . Halogens, hydrohalides, non-metal oxides	[68-]
Compositions (compositions based essentially on reclaimed vulcanised synthetic rubber 39b2-15/00)		[68-]
39b3-7/00	Compositions based essentially on synthetic rubber latices	[68-]
39b3-7/02	. Compounding ingredients	[68-]
39b3-7/04	. . Pre-treated compounding ingredients	[68-]
39b3-7/06	. . Cements; Mortar; Plaster	[68-]
39b3-7/08	. . Loose fibres, e.g. of cellulose, leather, asbestos	[68-]
39b3-7/10	. . Stabilisers, including pH-value-regulating agents	[68-]
39b3-7/12	. . Pesticides, e.g. fungicides, bactericides	[68-]
39b3-7/14	. . Colloidal thickening agents	[68-]
39b3-7/16	. . Sensitising agents, i.e. heat-latent coagulants	[68-]
39b3-7/18	. . Surface-active agents, e.g. anti-foaming agents	[68-]
39b3-9/00	Compositions based essentially on unvulcanised synthetic rubber (compounding ingredients 39b2-11/00)	[68-]
39b3-9/02	. in admixture with other macromolecular compounds	[68-]
39b3-9/04	. . with vulcanised natural or synthetic rubber	[68-]
39b3-9/06	. . with polysaccharides or derivatives thereof	[68-]
39b3-9/08	. . with polymers or copolymers	[68-]
39b3-9/10	. . with polycondensation or polyaddition products	[68-]
39b3-9/12	. . with natural resins	[68-]
39b3-9/14	. . with factice	[68-]
39b3-9/16	. . with derivatives of natural or synthetic rubber	[68-]
39b3-11/00	Compositions based essentially on derivatives of synthetic rubber	[68-]
39b3-11/02	. Plasticisers	[68-]
39b3-11/04	. Stabilisers	[68-]
Working-up		[68-]
39b3-13/00	Chemical features in the manufacture of articles or materials from synthetic rubber or derivatives thereof (in the manufacture of layered products 39b7-1/36)	[68-]
39b3-13/02	. in the manufacture of threads from synthetic rubber	[68-]
39b3-13/04	. . from synthetic latex	[68-]
39b3-13/06	. in the direct processing of synthetic latex to rubber articles	[68-]
39b3-13/08	. in the manufacture of porous or cellular articles or materials	[68-]
39b3-13/10	. . with the aid of blowing agents	[68-]
39b3-13/12	. . with the aid of soluble particles to be leached out	[68-]
39b3-13/14	. . from undried coagulum or gel	[68-]
39b3-13/16	. in the treatment of threads, fabrics or other coherent fibrous material, with synthetic rubber or derivatives thereof	[68-]

39b3-13/18	. . with synthetic latex	[68-]
39b3-13/20	. in the bonding of synthetic rubber to other materials, e.g. metal, glass, leather (joining glass to glass with the aid of synthetic rubber 32b-27/10)	[68-]
39b3-13/22	. in plasticising synthetic rubber (by addition of plasticisers 39b2-11/00)	[68-]
39b3-13/24	. in the coating of synthetic rubber	[68-]
39b3-13/26	. in the surface treatment, e. g halogenisation of synthetic rubber	[68-]
39b3-13/28	. Chemical vulcanisation, e.g. Peachey process	[68-]
39b3-13/30	. From reaction products of synthetic rubber with halogens, acids, or acid anhydrides, e.g. sulphur dioxide (manufacture or artificial threads 29b)	[68-]
39b3-13/32	. . from halogenated or hydrohalogenated synthetic rubber	[68-]
39b3-13/34	. . in making films or sheets	[68-]
39b3-13/36	. in the manufacture of abrasive or friction articles or materials	[68-]
39b3-13/38	. Recovery of waste materials	[68-]

39b4 (IPC: C08F) Polymerisation products (synthetic rubber 39b3; polymerised drying oils 22h1) [68-]

Note: [68-]
This subclass covers polymerised unsaturated condensation products. [68-]

Preparation [68-]

39b4-1/00	Methods of polymerisation	[68-]
39b4-1/02	. Thermal polymerisation	[68-]
39b4-1/04	. Polymerisation in bulk	[68-]
39b4-1/06	. Continuous flow polymerisation	[68-]
39b4-1/08	. Polymerisation of monomers in solution	[68-]
39b4-1/09	. . with the aid of dispersing agents for the polymer	[68-]
39b4-1/11	. Polymerisation of monomers in non-solvents to produce polymers in granular form, i.e. suspension polymerisation	[68-]
39b4-1/13	. Emulsion polymerisation	[68-]
39b4-1/16	. Polymerisation initiated by energetic waves or by irradiation	[68-]
39b4-1/18	. . by ultra-violet light	[68-]
39b4-1/20	. . . with special sensitising agents	[68-]
39b4-1/22	. . by silent discharges, e.g. voltolisation	[68-]
39b4-1/24	. . by X-rays or electrons	[68-]
39b4-1/26	. . by ultrasonics	[68-]
39b4-1/28	. using organo-metallic compounds; using mixtures or complexes of (1) metallic compounds reducible to a lower valency with (2) reducing agents, i.e. Ziegler-type catalysts	[68-]
39b4-1/30	. . using single organo-metallic compounds of metals having two valencies (39b4-1/34 takes precedence)	[68-]
39b4-1/32	. . using mixtures or complexes of reducible metallic compounds (the catalyst) with reducing agents (the co-catalyst)	[68-]
39b4-1/34	. . . the compounds being of metals not belonging to group IVa, Va, VIa, VIIa, or VIII of the Periodic System	[68-]
39b4-1/36	. . . the compounds being of metals belonging to group IVa, Va, or VIa of the Periodic System	[68-]
39b4-1/38	. . . . inorganic reducing agents	[68-]
39b4-1/40	. . . . organic reducing agents	[68-]
39b4-1/42	. . . . . organo-metallic reducing agents	[68-]
39b4-1/44	. . . . . organic reducing compounds of phosphorus, boron, or silicon	[68-]
39b4-1/46	. . . the compounds being of metals belonging to group VIIa, or VIII of the Periodic System	[68-]
39b4-1/48	. . . . inorganic reducing agents	[68-]
39b4-1/50	. . . . organic reducing agents	[68-]
39b4-1/52	. . . . . organo-metallic reducing agents	[68-]
39b4-1/54	. . . . . organic reducing compounds of phosphorus, boron, or silicon	[68-]
39b4-1/56	. using mixtures of any of the catalytic systems covered by 39b4-1/28 with materials which modify the catalytic action	[68-]

39b4-1/58	. using other catalysts	[68-]
39b4-1/60	. . oxygen or oxygen-generating compounds, e.g. peroxy compounds	[68-]
39b4-1/62	. . redox systems	[68-]
39b4-1/64	. . other inorganic catalysts	[68-]
39b4-1/66	. . . metals or their oxides	[68-]
39b4-1/68	. . . . alkali metals	[68-]
39b4-1/70	. . . inorganic acids or salts; mixtures thereof (39b4-1/72 takes precedence)	[68-]
39b4-1/72	. . . inorganic halides other than hydrogen halides; complexes thereof	[68-]
39b4-1/74	. . other organic catalysts	[68-]
39b4-1/76	. . . nitrogen-containing compounds	[68-]
39b4-1/78	. . . . nitriles of azo compounds	[68-]
39b4-1/80	. using polymerisation regulators, e.g. chain-stopping agents	[68-]
39b4-1/82	. using polymerisation retarding agents	[68-]
39b4-1/84	. Polymerisation in presence of plasticisers fillers or dyestuffs (39b4-1/86 takes precedence)	[68-]
39b4-1/86	. to produce shaped polymers	[68-]
39b4-1/88	. Post-polymerisation treatments, e.g. purification (chemical modification of polymers by after-treatment 39b4-27/00)	[68-]
39b4-1/90	. . Neutralisation	[68-]
39b4-1/92	. . Precipitation or coagulation	[68-]
39b4-1/94	. . Fractionation of polymers	[68-]
39b4-1/96	. . Removal of monomers	[68-]
39b4-1/98	. Apparatus	[68-]

Note: [68-]
In groups 39b4-3/00 to 39b4-27/00, in the absence of a reference to the contrary, a compound is classified in the last appropriate place. [68-]

39b4-3/00	Polymers of acyclic compounds containing carbon-to carbon double bonds	[68-]
39b4-3/02	. Hydrocarbon polymers	[68-]
39b4-3/04	. . Polyethylene	[68-]
39b4-3/06	. . . Low-pressure polyethylene	[68-]
39b4-3/08	. . Polypropylene	[68-]
39b4-3/10	. . . Stereospecific polypropylene	[68-]
39b4-3/12	. . Polybutylene	[68-]
39b4-3/14	. . . Polyiso-butylene	[68-]
39b4-3/16	. . from hydrocarbons with conjugated double bonds (synthetic rubbers 39b3)	[68-]
39b4-3/18	. . . Butadiene (non-elastomeric)	[68-]
39b4-3/20	. Polymers of acyclic halogenated hydrocarbons containing carbon-to carbon double bonds	[68-]
39b4-3/22	. . Polymers of halogenated ethylene	[68-]
39b4-3/24	. . . Polytetrafluorethylene	[68-]
39b4-3/26	. . . Polytrifluorochloroethylene	[68-]
39b4-3/28	. . . Polyvinylidene chloride	[68-]
39b4-3/30	. . . Polyvinyl chloride	[68-]
39b4-3/32	. . Polymers of halogenated hydrocarbons containing more than two carbon atoms	[68-]
39b4-3/34	. Polymers of unsaturated alcohols or ethers	[68-]
39b4-3/36	. . Polyallyl alcohol	[68-]
39b4-3/38	. . Polyvinyl ethers or thio-ethers	[68-]
39b4-3/40	. Polymers of unsaturated aldehydes or ketones	[68-]
39b4-3/42	. Polymers of unsaturated carboxylic acids	[68-]
39b4-3/44	. . Polyacrylic acid	[68-]
39b4-3/46	. . Polymethacrylic acid	[68-]
39b4-3/48	. . Polymers of maleic or fumaric acid	[68-]
39b4-3/50	. Polymers of unsaturated organic esters (polymers of macromolecular polyesters 39b4-11/02)	[68-]
39b4-3/52	. . in which the alcohol residue contains the unsaturation	[68-]
39b4-3/54	. . . Polyvinyl esters	[68-]
39b4-3/56	. . . . Polyvinyl acetate	[68-]

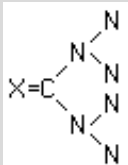
39b4-3/58	. . . Polyallyl esters	[68-]
39b4-3/60	. . . . Polydiallyl phthalate	[68-]
39b4-3/62	. . in which the unsaturation is in the acid residue or in both the acid and alcohol residues	[68-]
39b4-3/64	. . . Polyacrylates	[68-]
39b4-3/66	. . . Polymethacrylates	[68-]
39b4-3/68	. . . . Polymethyl methacrylate	[68-]
39b4-3/70	. . . Polymaleates or fumarates	[68-]
39b4-3/72	. . . . Polydiallyl maleate	[68-]
39b4-3/74	. Polymers of unsaturated nitriles	[68-]
39b4-3/76	. . Polyacrylonitrile	[68-]
39b4-3/78	. . . Polymethacrylonitrile	[68-]
39b4-3/80	. . . Polyvinylidene cyanide	[68-]
39b4-3/82	. . Polymalonitrile of fumaronitrile	[68-]
39b4-3/84	. Polymers of other acyclic compounds containing carbon-to-carbon double bonds	[68-]
39b4-3/86	. . Polyvinylamines	[68-]
39b4-3/88	. . of unsaturated nitro compounds	[68-]
39b4-3/90	. . of unsaturated amides	[68-]
39b4-3/92	. . of unsaturated sulphonamides	[68-]
39b4-5/00	Polymers of cyclic compounds containing carbon-to-carbon double bonds in a carbocyclic or heterocyclic ring	[68-]
39b4-5/02	. Coumarone-indene polymers	[68-]
39b4-5/04	. Polymers of furane or derivatives thereof	[68-]
39b4-7/00	Polymers of cyclic compounds containing carbon-to-carbon double bonds in side chains (39b4-3/58 takes precedence)	[68-]
39b4-7/02	. of carbocyclic compounds	[68-]
39b4-7/04	. . Polystyrene	[68-]
39b4-7/06	. . . Polymers of halogenated styrene	[68-]
39b4-7/08	. . Polydivinylbenzene	[68-]
39b4-7/10	. . Polyvinylphenols	[68-]
39b4-7/12	. of heterocyclic compounds	[68-]
39b4-7/14	. . Polymers of N-vinyl pyrrolidine	[68-]
39b4-7/16	. . Polymers of N-vinyl carbazole	[68-]
39b4-9/00	Polymers of compounds containing carbon-to-carbon triple bonds	[68-]
39b4-9/02	. Polyvinylacetylene	[68-]
39b4-11/00	Polymers of unsaturated polycondensates	[68-]
39b4-11/02	. of polyesters	[68-]
39b4-11/04	. of silicon-containing polycondensates	[68-]
39b4-13/00	Polymers no elsewhere classified	[68-]
39b4-13/02	. Polymers of aromatic hydrocarbons, or heterocyclic nitrogen analogues thereof, containing two methyl groups in para positions	[68-]
39b4-13/04	. Polymers from mixtures of unsaturated compounds with carbon monoxide	[68-]
39b4-13/06	. Polymers from mixtures of unsaturated compounds with sulphur dioxide	[68-]
39b4-15/00	Copolymers of mixtures of acyclic compounds covered by group 39b4-3/00	[68-]
39b4-15/02	. Binary copolymers	[68-]
39b4-15/04	. . of mixtures of hydrocarbons	[68-]
39b4-15/06	. . of mixtures of halogenated hydrocarbons	[68-]
39b4-15/08	. . . Vinyl halide vinylidene halide copolymers	[68-]
39b4-15/10	. . of mixtures of unsaturated alcohols or ethers	[68-]
39b4-15/12	. . of mixtures of unsaturated aldehydes or ketons	[68-]
39b4-15/14	. . of mixtures of unsaturated carboxylic acids	[68-]
39b4-15/16	. . of mixtures of unsaturated esters	[68-]
39b4-15/18	. . . of acrylates with methacrylates	[68-]
39b4-15/20	. . . of vinyl esters with other esters	[68-]

39b4-15/22	. . of mixtures of unsaturated nitriles	[68-]
39b4-15/24	. . of mixtures of halogenated hydrocarbon with unsaturated esters	[68-]
39b4-15/26	. . . with acrylates or methacrylates	[68-]
39b4-15/28	. . . vinyl halide vinyl ester copolymers	[68-]
39b4-15/30	. . . . vinyl chloride-vinyl-acetate compolymers	[68-]
39b4-15/32	. . of mixtures of halogenated hydrocarbon with unsaturated carboxylic acid or nitrile	[68-]
39b4-15/34	. . . with polybasic acids	[68-]
39b4-15/36	. . of mixtures of unsaturated carboxylic acids with unsaturated esters or nitriles	[68-]
39b4-15/38	. . of mixtures of unsaturated esters with unsaturated nitriles	[68-]
39b4-15/40	. Copolymers of more than two monomers	[68-]
39b4-15/42	. . of hydrocarbons in mineral oils	[68-]
39b4-17/00	Copolymers of compounds covered by group 39b4-5/00 with or without compounds covered by group 39b4-3/00 (coumarone-indene copolymers 39b4-5/02)	[68-]
39b4-19/00	Copolymers of compounds covered by group 39b4-7/00 with or without compounds covered by groups 39b4-3/00 and 39b4-5/00	[68-]
39b4-19/02	. of styrene with other monomers	[68-]
39b4-19/04	. . with unsaturated hydrocarbons	[68-]
39b4-19/06	. . . having conjugated double bonds	[68-]
39b4-19/08	. . . . with butadiene	[68-]
39b4-19/10	. . with unsaturated esters	[68-]
39b4-19/12	. . . containing more than one double bond	[68-]
39b4-19/14	. . . . with drying oils or esters of drying oil acids	[68-]
39b4-19/16	. . with unsaturated nitriles	[68-]
39b4-19/18	. . . with acrylonitrile	[68-]
39b4-19/20	. of divinyl benzene with other monomers	[68-]
39b4-21/00	Copolymers of compounds covered by group 39b4-11/00 with or without compounds covered by groups 39b4-3/00, 39b4-5/00, 39b4-7/00, 39b4-9/00	[68-]
39b4-21/02	. with styrene, its homologues, or halogenated derivatives thereof	[68-]
39b4-21/04	. with drying or semi-drying oils, their acids, or esters thereof	[68-]
39b4-23/00	Copolymers of compounds containing carbon-to-carbon triple bonds with other monomers	[68-]
39b4-25/00	Other copolymers	[68-]
39b4-27/00	Chemical modification of polymers or copolymers by after-treatment	[68-]
39b4-27/02	. by incorporating halogen into the molecule, or removing it therefrom	[68-]
39b4-27/03	. . by halogenation of alkene polymers or copolymers	[68-]
39b4-27/04	. by incorporating metal atoms in the molecule, e.g. preparation of salts	[68-]
39b4-27/06	. by incorporating sulphur or groups containing sulphur into the molecule	[68-]
39b4-27/07	. . into alkene polymers or copolymers	[68-]
39b4-27/08	. by incorporating groups containing nitrogen into the molecule	[68-]
39b4-27/10	. . with isocyanates or polyisocyanates	[68-]
39b4-27/12	. by esterification	[68-]
39b4-27/14	. by hydrolysis	[68-]
39b4-27/16	. . Preparation of polyvinyl alcohols	[68-]
39b4-27/18	. by condensation with aldehydes or ketones	[68-]
39b4-27/20	. . Preparation of polyvinyl acetals or ketals	[68-]
39b4-27/22	. by oxidation	[68-]
39b4-27/24	. by reduction, e.g. hydrogenation	[68-]
39b4-27/25	. . hydrogenation of alkene polymers or copolymers	[68-]
39b4-27/26	. Partial depolymerisation	[68-]
39b4-27/28	. . of alkene polymers or copolymers	[68-]

Compositions		[68-]
39b4-29/00	Compositions based essentially on polymers of acyclic compounds containing carbon-to-carbon double bonds	[68-]
39b4-29/02	. based on hydrocarbon polymers	[68-]
39b4-29/04	. . on polyethylene	[68-]
39b4-29/06	. . on polyisobutylene	[68-]
39b4-29/08	. . on non-elastomeric polymers of hydrocarbons with conjugated double bonds	[68-]
39b4-29/10	. . mixed with other macromolecules	[68-]
39b4-29/12	. . . mixed with other polymers or copolymers	[68-]
39b4-29/14	. based on halogenated hydrocarbons	[68-]
39b4-29/16	. . containing fluorine	[68-]
39b4-29/18	. . on polyvinyl chloride	[68-]
39b4-29/20	. . mixed with other macromolecules	[68-]
39b4-29/22	. . . mixed with other polymers or copolymers	[68-]
39b4-29/24	. . . . on polyvinyl chloride mixed with other polymers or copolymers	[68-]
39b4-29/26	. based on polymers of unsaturated alcohols (including polyvinyl alcohol, its acetals or ketals) ethers, aldehydes, or ketones	[68-]
39b4-29/28	. . on polymers of unsaturated ethers	[68-]
39b4-29/30	. . mixed with other macromolecules	[68-]
39b4-29/32	. . . on polyvinyl acetals mixed with other macromolecules	[68-]
39b4-29/34	. based on polymers of unsaturated carboxylic acids	[68-]
39b4-29/36	. . mixed with other macromolecules	[68-]
39b4-29/38	. based on polymers of unsaturated organic esters	[68-]
39b4-29/40	. . on polyvinyl esters (39b4-29/48 takes precedence)	[68-]
39b4-29/42	. . . on polyvinyl acetate	[68-]
39b4-29/44	. . on polyallyl esters	[68-]
39b4-29/46	. . on polyacrylates and/or methacrylates	[68-]
39b4-29/48	. . on esters of beta-unsaturated dicarboxylic acids	[68-]
39b4-29/50	. . mixed with other macromolecules	[68-]
39b4-29/52	. based on polymers of unsaturated nitriles	[68-]
39b4-29/54	. . on polyacrylonitrile	[68-]
39b4-29/56	. . mixed with other macromolecules	[68-]
39b4-31/00	Compositions based essentially on polymers of compounds containing carbon-to-carbon double bonds in a carbocyclic or heterocyclic ring	[68-]
39b4-31/02	. based on polymers or copolymers of coumarone and indene	[68-]
39b4-31/04	. on mixture with other macromolecules	[68-]
39b4-33/00	Compositions based essentially on polymers of cyclic compounds containing carbon-to-carbon double bonds in side chains	[68-]
39b4-33/02	. on polystyrene	[68-]
39b4-33/04	. on poly-N-vinyl pyrrolidine	[68-]
39b4-33/06	. on poly-N-vinyl carbazole	[68-]
39b4-33/08	. mixed with other macromolecules	[68-]
39b4-35/00	Compositions base essentially on other polymers	[68-]
39b4-35/02	. on silicon-containing polymers	[68-]
39b4-35/04	. on polymers of compounds containing carbon-to-carbon triple bonds	[68-]
39b4-35/06	. mixed with other macromolecules	[68-]
39b4-37/00	Compositions based essentially on copolymers covered by group 39b4-15/00	[68-]
39b4-37/02	. on copolymers covered by 39b4-15/06	[68-]
39b4-37/04	. on copolymers covered by 39b4-15/16	[68-]
39b4-37/06	. on copolymers covered by 39b4-15/18	[68-]
39b4-37/08	. on copolymers covered by 39b4-15/26	[68-]
39b4-37/10	. on copolymers covered by 39b4-15/30	[68-]
39b4-37/12	. on copolymers covered by 39b4-15/34	[68-]
39b4-37/14	. on copolymers covered by 39b4-15/36	[68-]
39b4-37/16	. mixed with other macromolecules	[68-]
39b4-37/18	. . with other polymers or copolymers	[68-]

39b4-39/00	Compositions based essentially on copolymers covered by group 39b4-17/00 with or without other macromolecules	[68-]
39b4-41/00	Compositions based essentially on copolymers covered by group 39b4-19/00	[68-]
39b4-41/02	. on copolymers covered by 39b4-19/02	[68-]
39b4-41/04	. on copolymers covered by 39b4-19/06	[68-]
39b4-41/06	. on copolymers covered by 39b4-19/10	[68-]
39b4-41/08	. on copolymers covered by 39b4-19/16	[68-]
39b4-41/10	. mixed with other macromolecules	[68-]
39b4-41/12	. . with other polymers or copolymers	[68-]
39b4-43/00	Compositions based essentially on other copolymers	[68-]
39b4-43/02	. on copolymers covered by 39b4-21/02	[68-]
39b4-43/04	. on copolymers covered by 39b4-21/04	[68-]
39b4-43/06	. mixed with other macromolecules	[68-]
39b4-43/08	. . with polymers or copolymers	[68-]
39b4-45/00	Other compounding ingredients	[68-]
	Note:	[68-]
	An ingredient is always classified in the last appropriate place.	[68-]
39b4-45/02	. Inert fillers or pigments	[68-]
39b4-45/04	. . Inorganic	[68-]
39b4-45/06	. . . Clay	[68-]
39b4-45/08	. . . Carbon, e.g. carbon black, charcoal, coke, graphite	[68-]
39b4-45/10	. . . fibrous	[68-]
39b4-45/12	. . . Abrasive fillers	[68-]
39b4-45/14	. . organic	[68-]
39b4-45/16	. . . fibrous	[68-]
39b4-45/18	. . . . cellulosic, e.g. wood-flour	[68-]
39b4-45/20	. . . Cork	[68-]
39b4-45/22	. Plasticisers; Solvents; Swelling agents	[68-]
39b4-45/24	. . Inorganic compounds	[68-]
39b4-45/26	. . Organic compounds	[68-]
39b4-45/28	. . . Hydrocarbons	[68-]
39b4-45/30	. . . Halogenated hydrocarbons	[68-]
39b4-45/32	. . . containing oxygen with or without halogen	[68-]
39b4-45/34	. . . . Hydroxyl compounds; Metal compounds thereof; Ethers; Aldehydes; Ketones; Acetals; Ketals	[68-]
39b4-45/36	. . . . Carboxylic acids; Salts or esters thereof	[68-]
39b4-45/38	. . . . . Esters prepared from acyclic polycarboxylic acids	[68-]
39b4-45/40	. . . . . Esters prepared from cyclic carboxylic acids or cyclic alcohols	[68-]
39b4-45/42	. . . . . Ether-esters	[68-]
39b4-45/44	. . . containing nitrogen, or nitrogen and oxygen, with or without halogen	[68-]
39b4-45/46	. . . containing sulphur, or sulphur and oxygen, with or without halogen	[68-]
39b4-45/48	. . . containing sulphur and nitrogen, with or without oxygen and/or halogen	[68-]
39b4-45/50	. . . containing phosphorus, silicon, or boron	[68-]
39b4-45/52	. . . Mineral oil products or conversion products thereof, e.g. paraffin wax, asphalt, bitumen, pitch	[68-]
39b4-45/54	. Stabilisers	[68-]
39b4-45/56	. . Inorganic	[68-]
39b4-45/58	. . Organic	[68-]
39b4-45/60	. . . containing nitrogen	[68-]
39b4-45/62	. . . Organo-metallic compounds	[68-]
39b4-45/64	. Pesticides, e.g. bactericides, fungicides	[68-]
39b4-45/66	. Dyes; Lakes	[68-]
39b4-45/67	. Optical brightening agents	[68-]
39b4-45/68	. Polymerisable monomers	[68-]
39b4-45/70	. . Styrenes	[68-]
39b4-45/72	. Hardening agents, e.g. isocyanates	[68-]

Working-up		[68-]
39b4-47/00	Methods of treating polymers, copolymers, or compositions containing them to produce articles or materials, chemical part	[68-]
39b4-47/02	. Powdering or granulating	[68-]
39b4-47/03	. . by dissolving and precipitating	[68-]
39b4-47/04	. Colouring (dyeing solids 8m)	[68-]
39b4-47/06	. . Colouring particles for making pigments	[68-]
39b4-47/08	. Working-up to porous or cellular articles of masses	[68-]
39b4-47/10	. . by adding blowing agents	[68-]
39b4-47/12	. Chemical features in the manufacture of articles, including material in sheet form (in manufacture of laminates 39b7)	[68-]
39b4-47/14	. . in making films or sheets	[68-]
39b4-47/16	. Dispersing polymers or copolymers	[68-]
39b4-47/18	. . with the aid of dispersing agents	[68-]
39b4-47/20	. . in organic liquids	[68-]
39b4-47/22	. Treatment of formed articles or materials	[68-]
39b4-47/24	. Recovery of waste materials	[68-]
39b5	(IPC: C08G) Polycondensation and polyaddition [two groups reacting] products	[68-]
Preparation		[68-]
39b5-1/00	Polymeric products from saturated aldehydes, i.e. not containing carbon-to-carbon unsaturation, or from cyclic oligomers thereof; Copolymers with less than 50 molar percent of other substances	[68-]
39b5-1/02	. Polymerisation of formaldehyde	[68-]
39b5-1/04	. Polymerisation of trioxane	[68-]
39b5-1/06	. Polymerisation of acetaldehyde	[68-]
39b5-1/08	. Polymerisation of other saturated aldehydes	[68-]
39b5-1/10	. Polymerisation of mixtures of saturated aldehydes	[68-]
39b5-1/12	. Copolymerisation of saturated aldehydes with other monomers	[68-]
39b5-1/14	. . with epoxy compounds	[68-]
39b5-1/16	. . with acetals	[68-]
39b5-1/18	. . with compounds containing carbon-to-carbon unsaturation	[68-]
39b5-1/20	. Use of catalysts for the polymerisation or copolymerisation	[68-]
39b5-1/22	. Chemical modification of the polymers or copolymers by after-treatment	[68-]
39b5-1/24	. . by esterification	[68-]
39b5-1/26	. . by etherification	[68-]
39b5-1/28	. . by depolymerisation	[68-]
39b5-3/00	Polycondensates from aldehydes with ketones	[68-]
39b5-5/00	Polycondensates from aldehydes with phenols	[68-]
39b5-5/02	. from aldehydes with sulphonated phenols	[68-]
39b5-5/04	. from furfural with phenols	[68-]
39b5-5/06	. from formaldehyd with phenols	[68-]
39b5-5/08	. . from phenols with only two free reactive positions ortho- or para- to the OH group, e.g. p-tert-butyl phenol	[68-]
39b5-5/10	. . from polyhydric phenols	[68-]
39b5-5/12	. . from phenols derived from natural sources such as cashew nut shell oil; from mixtures containing such phenols	[68-]
39b5-5/14	. . from aminophenols	[68-]
39b5-5/16	. . from chloro-, nitro-, or carboxy phenols	[68-]
39b5-5/18	. Modified phenol-aldehyde condensates	[68-]
39b5-5/20	. . Oil- or oil acid-modified	[68-]
39b5-5/22	. . Rosin- or rosin acid-modified	[68-]
39b5-7/00	Polycondensates from aldehydes with aromatic hydrocarbons or their halogen derivatives	[68-]

39b5-9/00	Polycondensates from aldehydes with compounds containing hydrogen attached to nitrogen (with amino phenols 39b5-5/14)	[68-]
39b5-9/02	. with acyclic or carbocyclic compounds	[68-]
39b5-9/04	. . with amines	[68-]
39b5-9/06	. . . aromatic amines	[68-]
		
39b5-9/08	. . with acyclic compounds containing at least once the configuration which X is O, S or NH	in [68-]
39b5-9/10	. . . with urea or thiourea	[68-]
39b5-9/12	. . . with dicyandiamide, guanidine, dicyandiamidine biguanides, biuret, semicarbazide	[68-]
39b5-9/14	. . . . with dicyandiamide	[68-]
39b5-9/16	. . with cyanamide	[68-]
39b5-9/18	. . with urethanes or thiourethanes	[68-]
39b5-9/20	. . with carboxylic acid amides (reaction of polyamides with aldehydes 39b5-20/40)	[68-]
39b5-9/22	. . with sulphonic amides	[68-]
39b5-9/24	. with heterocyclic compounds	[68-]
39b5-9/26	. . with substituted diazines, diazoles, or triazoles	[68-]
39b5-9/28	. . with substituted triazines	[68-]
39b5-9/30	. . . with melamine	[68-]
39b5-9/32	. Modified polycondensates	[68-]
39b5-9/34	. . by etherifying	[68-]
39b5-9/36	. . by esterifying	[68-]
39b5-11/00	Polycondensates from aldehydes with polyalcohols; Polymers of heterocyclic oxygen compounds containing in the ring at least once the grouping -O-C-O- (trioxane polymers 39b5-1/00)	[68-]
39b5-13/00	Polycondensates from aldehydes with other compounds (with polynitriles 39b5-20/28)	[68-]
39b5-15/00	Polycondensates from ketones only or from ketones with other compounds (with aldehydes 39b5-3/00)	[68-]
39b5-15/02	. with phenols	[68-]
39b5-17/00	Polyester condensates (polyesters containing silicon as part of the recurrent ester linkages 39b5-31/00)	[68-]
39b5-17/003	. Methods of preparation	[68-]
39b5-17/005	. . Interfacial processes	[68-]
39b5-17/007	. . using epoxy compounds, cyclic carbonates, or cyclic sulphites (39b5-30/00 takes precedence)	[68-]
39b5-17/01	. . Processes involving polycondensation of bisglycol esters	[68-]
39b5-17/013	. . . characterised by the use of special catalysts or combinations of catalysts	[68-]
39b5-17/015	. . . . of polycondensation catalysts	[68-]
39b5-17/017	. . from cyclic lactones or lactides	[68-]
39b5-17/02	. derived from hydroxycarboxylic acids	[68-]
39b5-17/04	. derived from saturated polybasic acids, e.g. terephthalic acid, and saturated polyhydroxy compounds	[68-]
39b5-17/06	. . from dibasic acids and dihydroxy compounds	[68-]
39b5-17/08	. . . from compounds containing carbocyclic rings	[68-]
39b5-17/10	. derived from polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation (polymerisation of unsaturated polyesters 39b4)	[68-]
39b5-17/12	. . derived from maleic acid	[68-]
39b5-17/13	. Polycarbonates	[68-]
39b5-17/133	. Polyesters containing phosphorus as part of the recurrent ester linkages	[68-]
39b5-17/137	. Polyesters containing boron as part of the recurrent ester linkages	[68-]

39b5-17/14	. Modified polyester condensates	[68-]
39b5-17/16	. . modified with unsaturated higher fatty oils or their acids and/or rosin or rosin acids	[68-]
39b5-17/18	. . modified with monohydric alcohols	[68-]
39b5-20/00	Polyamides; Polyesteramides; Polyimides	[68-]
39b5-20/02	. Preparation from	[68-]
39b5-20/04	. . omega-amino acids or amide-forming derivatives thereof	[68-]
39b5-20/06	. . . acyclic	[68-]
39b5-20/08	. . alfa-amino acids or amide-forming derivatives thereof	[68-]
39b5-20/10	. . lactams	[68-]
39b5-20/12	. . . epsilon-caprolactam	[68-]
39b5-20/14	. . . . continuous processes	[68-]
39b5-20/16	. . . pyrrolidones	[68-]
39b5-20/18	. . . by anionic polymerisation	[68-]
39b5-20/20	. . polyamines or amide-forming derivatives thereof and polybasic acids or amide-forming derivatives thereof	[68-]
39b5-20/22	. . . interfacial processes	[68-]
39b5-20/24	. . . with intermediate salt formation	[68-]
39b5-20/26	. . . using polymerised unsaturated fatty acids	[68-]
39b5-20/28	. . aldehydes and polynitriles	[68-]
39b5-20/30	. Polyesteramides	[68-]
39b5-20/32	. Polyimides; Polyamide acids or similar polyimide precursors	[68-]
39b5-20/34	. Polyphosphonamides	[68-]
39b5-20/36	. Polysulphonamides	[68-]
39b5-20/38	. Modifying the polymers; Purifying	[68-]
39b5-20/40	. . with aldehydes	[68-]
39b5-20/42	. . removing low-molecular-weight polymers or other volatile materials	[68-]
39b5-22/00	Polyureas; Polyurethanes	[68-]
39b5-22/02	. Polyureas	[68-]
39b5-22/04	. Polyurethanes	[68-]
39b5-22/06	. . Preparatory processes characterised by the selection of special hydroxyl-containing starting materials and of special isocyanates	[68-]
39b5-22/08	. . Preparatory processes characterised by the selection of special hydroxyl-containing starting materials	[68-]
39b5-22/10	. . . of polyesters	[68-]
39b5-22/12	. . . . with branched chains	[68-]
39b5-22/14	. . . of polyethers	[68-]
39b5-22/16	. . . of monomeric or oligomeric compounds	[68-]
39b5-22/18	. . Preparatory processes characterised by the selection of special isocyanates	[68-]
39b5-22/20	. . . acyclic (39b5-22/30, 39b5-22/32 take precedence)	[68-]
39b5-22/22	. . . containing rings (39b5-22/30, 39b5-22/32 take precedence)	[68-]
39b5-22/24	. . . . cycloaliphatic	[68-]
39b5-22/26	. . . . aromatic	[68-]
39b5-22/28	. . . containing more than two NCO or NCS groups (39b5-22/30, 39b5-22/32 take precedence)	[68-]
39b5-22/30	. . . containing phosphorus	[68-]
39b5-22/32	. . . masked isocyanates	[68-]
39b5-22/34	. . Preparatory processes characterised by the selection of special catalysts	[68-]
39b5-22/36	. . . which are amines or salts thereof	[68-]
39b5-22/38	. . . . tert. amines	[68-]
39b5-22/40	. . . which are metal compounds	[68-]
39b5-22/42	. . . . the metal being tin	[68-]
39b5-22/44	. . Manufacture of cellular products	[68-]
39b5-22/46	. . . by the one-shot method	[68-]
39b5-22/48	. . . by the prepolymer method	[68-]

39b5-23/00	Polyethers; Polythioethers (39b5-25/00, 39b5-30/00 take precedence; polyacetals 39b5-1/00, 39b5-11/00)	[68-]
39b5-23/02	. from compounds containing in their only heterocyclic ring, one oxygen atom and 2, 3 or 4 carbon atoms	[68-]
39b5-23/04	. . from oxetanes	[68-]
39b5-23/06	. . from oxirane	[68-]
39b5-23/08	. . . by polyaddition to active H-containing substances	[68-]
39b5-23/10	. . . . to hydroxyl-group containing substances	[68-]
39b5-23/12	. . . . the active hydrogen being attached to nitrogen	[68-]
39b5-23/14	. . using catalysts	[68-]
39b5-23/16	. Polyphenylene oxides and derivatives thereof	[68-]
39b5-23/18	. . by oxidation of phenols	[68-]
39b5-23/20	. Modification of the polymers by chemical after-treatment	[68-]
39b5-23/22	. . Esterification of terminal groups	[68-]
39b5-23/24	. . Etherification of terminal groups	[68-]
39b5-25/00	Polycondensates of organic compounds with inorganic sulphides or thiosulphates	[68-]
39b5-27/00	Polyadduct by the diene synthesis	[68-]
39b5-30/00	Polycondensates containing more than one epoxy group per molecule (low molecular weight polyepoxy compounds 12q); Formation of macromolecules from compounds containing more than one epoxy group per molecule	[68-]
39b5-30/02	. Poly-epoxy polycondensates from polyhydroxy compounds and epihalohydrin or its equivalent	[68-]
39b5-30/04	. . from polyhydric phenols	[68-]
39b5-30/06	. . . from phenol-aldehyde condensates	[68-]
39b5-30/08	. derived from amines	[68-]
39b5-30/10	. forming macromolecules from poly-epoxy compounds e.g. by cross-linking	[68-]
39b5-30/12	. . using polybasic acids or anhydrides thereof	[68-]
39b5-30/14	. . using nitrogen-containing compounds	[68-]
39b5-30/16	. . . using tertiary amines	[68-]
39b5-31/00	Organic silicon-containing polycondensates	[68-]
39b5-31/02	. in which all the silicon atoms are linked by oxygen	[68-]
39b5-31/04	. . Polysilicates	[68-]
39b5-31/06	. . Modified with polyesters	[68-]
39b5-31/09	. . Polysiloxanes	[68-]
39b5-31/10	. . . containing silicon bonded hydrogen	[68-]
39b5-31/12	. . . containing silicon bonded to oxygen-containing groups	[68-]
39b5-31/14	. . . . to free hydroxyl groups	[68-]
39b5-31/16	. . . . to alkoxy or aryloxy groups	[68-]
39b5-31/18	. . . . to polyoxyalkylene groups	[68-]
39b5-31/20	. . . containing silicon bonded to halogenated organic groups	[68-]
39b5-31/22	. . . containing silicon bonded to aliphatic unsaturated organic groups	[68-]
39b5-31/24	. . . containing silicon bonded to nitrogen-containing organic groups	[68-]
39b5-31/26	. . . containing silicon bonded to sulphur-containing organic groups	[68-]
39b5-31/28	. in which some at least of the silicon atoms are connected by linkages other than oxygen atoms	[68-]
39b5-31/30	. . by nitrogen atoms	[68-]
39b5-31/32	. . by carbon linkages	[68-]
39b5-31/34	. Preparatory processes	[68-]
39b5-31/36	. . hydrolytic	[68-]
39b5-31/38	. . . continuous	[68-]
39b5-31/40	. Modifying polymers by after-treatment	[68-]
39b5-31/42	. . fractionating	[68-]
39b5-31/44	. . introducing substituents or transforming existing substituents groups	[68-]

39b5-33/00	Other polycondensates or polyaddition products	[68-]
39b5-33/02	. containing nitrogen as a structural element in the skeleton of the molecule (39b5-33/16, 39b5-33/18 take precedence)	[68-]
39b5-33/04	. . Polyhydrazides; Polytriazoles; Polyaminotriazoles; Polyoxydiazoles	[68-]
39b5-33/06	. . Polyamines	[68-]
39b5-33/08	. . . derived from alkyleneimines	[68-]
39b5-33/10	. from phenols with substances not containing nitrogen (39b5-33/16 takes precedence)	[68-]
39b5-33/12	. . with acetylene	[68-]
39b5-33/14	. . with sulphur or sulphur halides	[68-]
39b5-33/16	. containing phosphorus as a structural element in the skeleton of the molecule (39b5-33/18 takes precedence)	[68-]
39b5-33/18	. containing boron as a structural element in the skeleton of the molecule	[68-]
39b5-33/20	. Metal-containing polymers	[68-]
39b5-35/00	General processes or apparatus for preparing polycondensation or polyaddition products	[68-]
<u>Compositions</u>		[68-]
39b5-37/00	Compositions based essentially on polycondensates	[68-]
39b5-37/02	. based on polycondensates from aldehydes and/or ketones	[68-]
39b5-37/04	. . mixed with other macromolecules	[68-]
39b5-37/06	. based on phenol-aldehyde condensates	[68-]
39b5-37/08	. . on phenol-formaldehyde condensates	[68-]
39b5-37/10	. . from phenols with only two free reactive positions	[68-]
39b5-37/12	. . from polyhydric phenols	[68-]
39b5-37/14	. . on modified phenol-aldehyde condensates	[68-]
39b5-37/16	. . mixed with other macromolecules	[68-]
39b5-37/18	. . . phenol-formaldehyde condensates mixed with other macromolecules	[68-]
39b5-37/20	. . . . mixed with polymers or copolymers	[68-]
39b5-37/22	. based on polycondensates from aldehydes and compounds containing hydrogen attached to nitrogen	[68-]
39b5-37/24	. . on aldehyde-amine polycondensates	[68-]
39b5-37/26	. . on polycondensates covered by group 39b5-9/08	[68-]
39b5-37/28	. . . on urea- or thiourea-aldehyde condensates	[68-]
39b5-37/30	. . on melamine-aldehyde condensates	[68-]
39b5-37/32	. . mixed with other macromolecules	[68-]
39b5-37/34	. . . on mixtures of aminoplasts with polyesters	[68-]
39b5-37/36	. based on polycondensates from aldehydes or ketones with other substances	[68-]
39b5-37/38	. . mixed with other macromolecules	[68-]
39b5-39/00	Compositions based essentially on polyester condensates	[68-]
39b5-39/02	. on polycondensates covered by group 39b5-17/04	[68-]
39b5-39/04	. . on polycondensates covered by group 39b5-17/08	[68-]
39b5-39/06	. on polycondensates covered by group 39b5-17/10	[68-]
39b5-39/08	. on polycondensates covered by group 39b5-17/14	[68-]
39b5-39/10	. mixes with other macromolecules (39b5-37/34 takes precedence)	[68-]
39b5-41/00	Compositions based essentially on polyamides, polyesteramides, polyureas, or polyurethanes	[68-]
39b5-41/02	. on polyamides	[68-]
39b5-41/04	. mixed with other macromolecules	[68-]
39b5-43/00	Compositions based essentially on polyethers or polythioethers (including polysulphides)	[68-]
39b5-43/02	. mixed with other macromolecules	[68-]
39b5-45/00	Compositions based essentially on polycondensates covered by 39b5-30/00	[68-]
39b5-45/02	. Mixtures with other macromolecules	[68-]
39b5-45/04	. . with polymers or copolymers	[68-]
39b5-45/06	. . with other polycondensates	[68-]

39b5-45/08	. . . with phenol-aldehyde condensates	[68-]
39b5-45/10	. . . with aminoplast	[68-]
39b5-45/12	. . . with polyamides, polyureas or polyurethanes	[68-]
39b5-45/14	. . . with polyesters	[68-]
39b5-45/16	. . . with polysiloxanes	[68-]
39b5-47/00	Compositions based essentially on silicon-containing polycondensates	[68-]
39b5-47/02	. on polysiloxanes	[68-]
39b5-47/04	. . on polysiloxane "resins"	[68-]
39b5-47/06	. . on polysiloxane "rubbers"	[68-]
39b5-47/08	. on polysilicates	[68-]
39b5-47/10	. mixed with other macromolecules	[68-]
39b5-49/00	Compositions based essentially on other polycondensates or polyaddition products	[68-]
39b5-49/02	. on polyadducts by the diene synthesis	[68-]
39b5-49/04	. mixed with other macromolecules	[68-]
39b5-51/00	Other compounding ingredients	[68-]
	Note:	[68-]
	An ingredient is always classified in the last appropriate place	[68-]
39b5-51/02	. Inert fillers or pigments	[68-]
39b5-51/04	. . inorganic	[68-]
39b5-51/06	. . . Clay	[68-]
39b5-51/08	. . . Carbon, e.g. carbon black, charcoal, coke, graphite	[68-]
39b5-51/10	. . . fibrous	[68-]
39b5-51/12	. . . Abrasive fillers	[68-]
39b5-51/14	. . organic	[68-]
39b5-51/16	. . . fibrous	[68-]
39b5-51/18	. . . . cellulose, e.g. wood-flour	[68-]
39b5-51/20	. . . Cork	[68-]
39b5-51/22	. Plasticisers; Solvents; Swelling agents	[68-]
39b5-51/24	. . Inorganic compounds	[68-]
39b5-51/26	. . Organic compounds	[68-]
39b5-51/28	. . . Hydrocarbons	[68-]
39b5-51/30	. . . Halogenated hydrocarbons	[68-]
39b5-51/32	. . . containing oxygen with or without halogen	[68-]
39b5-51/34	. . . . Hydroxyl compounds; Metal compounds thereof; Ethers; Aldehydes; Ketones; Acetals; Ketals	[68-]
39b5-51/36	. . . . Carboxylic acids; Salts or esters thereof	[68-]
39b5-51/38	. . . . . Esters prepared from acyclic polycarboxylic acids	[68-]
39b5-51/40	. . . . . Esters prepared from cyclic carboxylic acids or cyclic alcohols	[68-]
39b5-51/42	. . . . . Ether-esters	[68-]
39b5-51/44	. . . containing nitrogen, or nitrogen and oxygen, with or without halogen	[68-]
39b5-51/46	. . . containing sulphur, or sulphur and oxygen, with or without halogen	[68-]
39b5-51/48	. . . containing sulphur and nitrogen, with or without oxygen and/or halogen	[68-]
39b5-51/50	. . . containing phosphorus, silicon, or boron	[68-]
39b5-51/52	. . . Mineral oil products or conversion products thereof, e.g. paraffin wax, asphalt, bitumen, pitch	[68-]
39b5-51/54	. Stabilisers	[68-]
39b5-51/56	. . Inorganic	[68-]
39b5-51/58	. . Organic	[68-]
39b5-51/60	. . . containing nitrogen	[68-]
39b5-51/62	. . . Organo-metallic compounds	[68-]
39b5-51/64	. Pesticides, e.g. bactericides, fungicides	[68-]
39b5-51/66	. Dyes; Lakes	[68-]
39b5-51/67	. Optical brightening agents	[68-]
39b5-51/68	. Polymerisable monomers	[68-]
39b5-51/70	. . Styrenes	[68-]
39b5-51/72	. . Drying oils; Drying oil acids or esters thereof	[68-]

39b5-51/74	. Hardening agents	[68-]
39b5-51/76	. . Isocyanates	[68-]
39b5-51/78	. . Acids	[68-]
39b5-51/80	. . . Organic acids	[68-]
39b5-51/82	. . Ammonium salts	[68-]
39b5-51/84	. . Amines; Amides	[68-]
39b5-51/86	. . Friedel-Crafts catalysts	[68-]
Working up		[68-]
39b5-53/00	Methods of treating polycondensates or polyaddition products or compositions containing them to produce articles or materials, chemical part	[68-]
39b5-53/02	. Powdering or granulating	[68-]
39b5-53/03	. . by dissolving and precipitating	[68-]
39b5-53/04	. Colouring (dyeing solids 8m)	[68-]
39b5-53/06	. . Colouring particles for making pigments	[68-]
39b5-53/08	. Working-up to porous or cellular articles or masses (making cellular polyurethanes 39b5-22/44)	[68-]
39b5-53/10	. . by adding blowing agents	[68-]
39b5-53/14	. Chemical features in the manufacture of articles or of materials in sheet form (in manufacture of laminates 39b7)	[68-]
39b5-53/16	. . in making film or sheets	[68-]
39b5-53/18	. Dispersing polycondensates or polyaddition products	[68-]
39b5-53/20	. Treatment of formed articles or material	[68-]
39b5-53/22	. Recovery of waste materials	[68-]
39b6	(IPC: C08H) Macromolecular compounds not otherwise provided for; Compositions based thereon	[68-]
Preparation		[68-]
39b6-1/00	Macromolecular products derived from proteins (food proteins 53i; glue, gelatine 22i1)	[68-]
39b6-1/02	. Protein-aldehyde condensates	[68-]
39b6-1/04	. . Casein-aldehyde condensates	[68-]
39b6-1/06	. derived from horn, hoofs, hair, skin, or leather	[68-]
39b6-3/00	Vulcanised oils, e.g. factice	[68-]
39b6-5/00	Other macromolecular compounds (natural resins and their derivatives 22h1; bituminous materials 12r)	[68-]
39b6-5/02	. derived from lignin	[68-]
39b6-5/04	. derived from lignocellulosic materials	[68-]
Compositions		[68-]
39b6-7/00	Compositions based essentially on products derived from proteins	[68-]
39b6-7/02	. on casein-aldehyde condensates	[68-]
39b6-7/04	. on products derived from waste materials, e.g. horn, hoofs, or hair	[68-]
39b6-7/06	. . derived from leather or skin	[68-]
39b6-7/08	. . . containing large proportions of leather fibre	[68-]
39b6-9/00	Compositions based essentially on oils, fats, or waxes or products derived therefrom (polishing compositions, ski waxes 22h2; soap compositions 23e)	[68-]
39b6-9/02	. on vulcanised oils, e.g. factice	[68-]
39b6-9/04	. on linoxyn	[68-]
39b6-9/06	. on waxes	[68-]
39b6-9/08	. . on mineral wax	[68-]
39b6-9/10	. . . with other macromolecules	[68-]

39b6-11/00	Compositions based essentially on natural resins or derivatives thereof (polishing compositions 22h2)	[68-]
39b6-11/02	. on shellac (French polish 22h1)	[68-]
39b6-11/04	. on rosin	[68-]
39b6-11/06	. with other macromolecules	[68-]
39b6-13/00	Compositions based essentially on carbonaceous substances such as bitumens, tars, asphalts, pitches	[68-]
39b6-13/02	. with other macromolecules	[68-]
39b6-13/04	. . with polysaccharides or derivatives thereof	[68-]
39b6-13/06	. . with natural or synthetic rubber or derivatives	[68-]
39b6-13/08	. . with polymers or copolymers	[68-]
39b6-13/10	. . with polycondensates or polyaddition products	[68-]
39b6-13/12	. . with products derived from proteins	[68-]
39b6-15/00	Other compositions (selection of substances for impregnating wood and similar materials 38h)	[68-]
39b6-15/02	. based essentially on ligno-cellulosic material	[68-]
39b6-15/04	. . containing large proportions of fibrous fillers (sound or thermal insulating materials 80b, 80q)	[68-]
39b6-15/06	. . . Artificial wood	[68-]
39b6-17/00	Other compounding ingredients	[68-]
	Note:	[68-]
	An ingredient is always classified in the last appropriate place.	[68-]
39b6-17/02	. Inert fillers or pigments	[68-]
39b6-17/04	. . Inorganic	[68-]
39b6-17/06	. . . Clay	[68-]
39b6-17/08	. . . Carbon, e.g. carbon black, charcoal, coke, graphite	[68-]
39b6-17/10	. . . fibrous	[68-]
39b6-17/12	. . . Abrasive fillers	[68-]
39b6-17/14	. . organic	[68-]
39b6-17/16	. . . fibrous	[68-]
39b6-17/18	. . . . cellulosic, e.g. wood-flour	[68-]
39b6-17/20	. . . Cork	[68-]
39b6-17/22	. Plasticisers; Solvents; Swelling agents	[68-]
39b6-17/24	. . inorganic compounds	[68-]
39b6-17/26	. . Organic compounds	[68-]
39b6-17/28	. . . Hydrocarbons	[68-]
39b6-17/30	. . . Halogenated hydrocarbons	[68-]
39b6-17/32	. . . containing oxygen with or without halogen	[68-]
39b6-17/34	. . . . Hydroxyl compounds; Metal compounds thereof; Ethers; Aldehydes; Ketones; Acetals; Ketals	[68-]
39b6-17/36	. . . . Carboxylic acids; Salts and esters thereof	[68-]
39b6-17/38	. . . . . Esters prepared from acyclic polycarboxylic acids	[68-]
39b6-17/40	. . . . . Esters prepared from cyclic carboxylic acids or cyclic alcohols	[68-]
39b6-17/42	. . . . . Ether-esters	[68-]
39b6-17/44	. . . containing nitrogen, or nitrogen and oxygen, with or without halogen	[68-]
39b6-17/46	. . . containing sulphur, or sulphur and oxygen, with or without halogen	[68-]
39b6-17/48	. . . containing sulphur and nitrogen with or without oxygen and/or halogen	[68-]
39b6-17/50	. . . containing phosphorus, silicon, or boron	[68-]
39b6-17/52	. Liquid hydrocarbon oil products	[68-]
39b6-17/54	. Stabilisers	[68-]
39b6-17/56	. . Inorganic	[68-]
39b6-17/58	. . Organic	[68-]
39b6-17/60	. . . Organo-metallic compounds	[68-]
39b6-17/62	. Hardening agents	[68-]
39b6-17/64	. Pesticides, e.g. bactericides, fungicides	[68-]
39b6-17/66	. Dyes; Lakes	[68-]
39b6-17/68	. Hydraulic hardening compounds, e.g. cement, mortar, plaster	[68-]

Working-up		[68-]
39b6-19/00	Chemical features in the manufacture or treatment of articles or materials	[68-]
39b6-19/02	. from proteins	[68-]
39b6-19/04	. from lignocellulosic materials (impregnating 38h)	[68-]
39b7	(IPC: C08J) General methods for preparing and working-up	[68-]
39b7-1/00	Methods of treating macromolecular substances or compositions containing them, in general, non-mechanical part (mechanical aspects of after-treatment 39a2-25/00)	[68-]
39b7-1/02	. by energetic waves or by irradiation	[68-]
39b7-1/04	. . by X-rays or electrons	[68-]
39b7-1/06	. Powdering or granulating	[68-]
39b7-1/07	. . by dissolving and precipitating	[68-]
39b7-1/08	. Colouring (dyeing solids 8m)	[68-]
39b7-1/10	. . colouring particles of macromolecular substances for pigments	[68-]
39b7-1/12	. Decolourising	[68-]
39b7-1/14	. Working-up to porous or cellular articles of masses (making micro-capsules or micro-balloons 12c-3)	[68-]
39b7-1/16	. . by treatment with inert gases	[68-]
39b7-1/18	. . by adding blowing agents	[68-]
39b7-1/20	. . . producing nitrogen	[68-]
39b7-1/22	. . . producing carbon dioxide	[68-]
39b7-1/24	. . . producing hydrogen	[68-]
39b7-1/26	. . by adding volatile organic liquids	[68-]
39b7-1/28	. . by dissolving solid particles	[68-]
39b7-1/30	. . After-treatment	[68-]
39b7-1/32	. Chemical features in the manufacture of articles or materials	[68-]
39b7-1/34	. . in the manufacture of films, membranes, or diaphragms from ion-exchange resins	[68-]
39b7-1/36	. . in the manufacture of layered products wherein all the layers consist of substances covered by 39b, adhesives being ignored; The products themselves	[68-]
39b7-1/38	. . . from films of regenerated cellulose or cellulose derivatives	[68-]
39b7-1/39	. . . from layers of natural or synthetic rubber	[68-]
39b7-1/40	. . . from films of polymerisation products	[68-]
39b7-1/42	. . . from films of polycondensation or polyaddition products	[68-]
39b7-1/44	. . . from layers of other substances covered by 39b	[68-]
39b7-1/46	. Dispersing	[68-]
39b7-1/48	. . with the aid of dispersing agents	[68-]
39b7-1/50	. Treatment of formed articles or materials	[68-]
39b7-1/52	. Recovery of solvents or plasticisers	[68-]
39b8	(IPC: C08K) Additives for general use	[68-]
39b8-1/00	The use of specific materials as additives to compositions, based on macromolecular compounds in general (pigments and/or fillers 22f)	[68-]
	Note:	[68-]
	An ingredient is always classified in the last appropriate place.	[68-]
39b8-1/02	. inorganic	[68-]
39b8-1/04	. . oxides; hydroxides	[68-]
39b8-1/06	. . . metal oxides	[68-]
39b8-1/08	. . . silica and its hydrates	[68-]
39b8-1/10	. . silicates	[68-]
39b8-1/12	. . . clay	[68-]
39b8-1/14	. . fibrous material, e.g. asbestos	[68-]
39b8-1/16	. . carbon, e.g. carbon black, charcoal, coke, graphite	[68-]
39b8-1/18	. . abrasive fillers	[68-]
39b8-1/20	. organic	[68-]

39b8-1/22	. . hydrocarbons	[68-]
39b8-1/24	. . halogenated hydrocarbons	[68-]
39b8-1/26	. . containing oxygen with or without halogen	[68-]
39b8-1/28	. . . hydroxyl compounds; metal compounds thereof	[68-]
39b8-1/30	. . . . containing phenolic hydroxyl groups	[68-]
39b8-1/32	. . . ethers; acetals; aldehydes; ketones; ketals	[68-]
39b8-1/34	. . . carboxylic acids; metal salts thereof; anhydrides	[68-]
39b8-1/36	. . . esters; ether esters	[68-]
39b8-1/38	. . . . from acyclic polycarboxylic acids	[68-]
39b8-1/40	. . containing nitrogen, or nitrogen and oxygen, with or without halogen	[68-]
39b8-1/42	. . . Nitro compounds	[68-]
39b8-1/44	. . . amines; imides; amides	[68-]
39b8-1/46	. . . . with aromatically-bound amino groups	[68-]
39b8-1/48	. . . urea; derivatives thereof	[68-]
39b8-1/50	. . . guanidine; derivatives thereof	[68-]
39b8-1/52	. . . heterocyclic compounds containing nitrogen with or without oxygen as hetero atoms	[68-]
39b8-1/54	. . containing sulphur or selenium with or without nitrogen, oxygen and halogen	[68-]
39b8-1/56	. . . heterocyclic compounds containing sulphur either with or without nitrogen or oxygen as hetero atoms	[68-]
39b8-1/58	. . organo-metallic compounds	[68-]
39b8-1/60	. . phosphorus, arsenic, antimony, silicon, or boron compounds	[68-]
39b8-1/62	. . hydrocarbon oil products, e.g. asphalt, bitumen, pitch, coal-tar; conversion products thereof	[68-]
39b8-1/64	. . waxes, e.g. paraffin waxes; natural waxes	[68-]
39b8-1/66	. . vegetable and animal oils and fats	[68-]
39b8-1/68	. . fibrous material	[68-]
39b8-1/70	. . . cellulosic, e.g. wood-flour	[68-]
39b8-1/72	. . cork	[68-]
39b8-1/74	. . dyes; lakes	[68-]
39b8-1/75	. . Optical brightening agents	[68-]
39b8-1/76	. ingredients with pesticidal effects	[68-]
39b8-1/78	. synthetic macromolecular compounds, in particulate or fibrous form	[68-]
39b8-1/80	. . as fibres	[68-]
39b8-1/82	. hardening agents, e.g. isocyanates	[68-]
39b8-1/84	. pretreated compounding ingredients	[68-]

39c **Framställning av konsthartser, t.ex. av hartsartade kondensationsprodukter eller polymerisationsprodukter** (konsthartsplaster 39h-22, konsthartslackar 22h-1/02, 22h-3);
Framställning av konstgummi eller andra gummiliknande kondensationsprodukter eller polymerisationsprodukter **[-62]**

39c **Framställning av plaster** **[62-68]**

Anmärkning:

Denna subclass omfattar framställning av polykondensat, polymerisat eller polyadditionsprodukter som i allmänhet innehåller minst tio, men undantagsvis färre, merer. Den omfattar även framställning av produkter ur lågmolekylära föreningar under samtidig formgivning eller i närvaro av mjukningsmedel, färgämnen eller fyllmedel samt framställning av plaster genom modifiering (t.ex. förtvålning, halogenering, alkoxilering eller ympning) av andra plaster utan samtidig formgivning.

Kondensationsprodukter av fenoltyp (garvämnerna av fenoler 12q-20/04; vidarebehandling av fenolhartser 39b-22/02) **[-62]**

39c-1 ur fenoler med karbonylföreningar **[-62]**

39c-1 Kvävefria polykondensat ur fenoler och aldehydföreningar eller ketoföreningar **[62-68]**

39c-2 ur fenoler med andra föreningar **[-62]**

- 39c-2 Kvävefria polykondensat ur fenoler och andra föreningar, utom ur epoxider, fosgen, flerbasiska syror, hydroxyföreningar eller merkaptoföreningar [62-68]
- Kvävehaltiga kondensationsprodukter eller polymerisationsprodukter (vidarebehandling av kvävehaltiga hartsprodukter 39b-22/04) [-62]**
- 39c-5 ur karbamid eller dess derivat med karbonylföreningar [-62]
- 39c-5 Polykondensat ur karbamid eller dess derivat, cyanamid, guanidin, aldehydföreningar eller ketoföreningar [62-68]
- 39c-6 ur karbamid eller dess derivat med andra föreningar [-62]
- 39c-6 Polykondensat eller polyadditionsprodukter bildade genom reaktion av karbamid eller dess derivat eller isocyanat eller av föreningar varav dessa ämnen bildas, med föreningar som inte omfattas av 39e-5; Polykarbamider; Polyuretaner; Polyesteruretaner; Polyeteruretaner [62-68]
- 39c-10 ur föreningar med aminogrunder eller grupper som bildar sådana, t.ex. superpolyamider [-62]
- 39c-10 Polykondensat eller polyadditionsprodukter ur aminosyror eller laktamer; Polykondensat eller polyadditionsprodukter ur flerbasiska karbonsyror eller oxikarbonsyror och föreningar med minst två aminogrunder, t.ex. hydrazin, eller hydroxiaminoföreningar; Polyamider, Polyesteramider [62-68]
- 39c-12/01 ur aminer med karbonylföreningar (12q-9) [-62]
- 39c-12/01 Polykondensat ur aminer och aldehydföreningar eller ketoföreningar [62-68]
- 39c-12/10 ur heterocykliska aminoföreningar med karbonylföreningar; t.ex. framställning av melaminkondensationsprodukter [-62]
- 39c-12/10 Polykondensat ur heterocykliska aminoföreningar och aldehydföreningar eller ketoföreningar [62-68]
- 39c-13 ur aminer med andra föreningar [-62]
- 39c-13 Polykondensat ur aminer och andra föreningar som inte omfattas av 39c-6 [62-68]
- 39c-15 Andra kvävehaltiga kondensationsprodukter eller polymerisationsprodukter [-62]
- 39c-15 Andra kvävehaltiga plaster (polymerisat ur omättade, kvävehaltiga organiska föreningar 39c-25) [62-68]
- Andra hartsartade kondensationsprodukter eller polymerisationsprodukter [-62]**
- 39c-16 Kondensationsprodukter ur flerbasiska syror och flervärda alkoholer; Alkydhartser [-62]
- 39c-16 Polykondensat ur flerbasiska syror och flervärda alkoholer eller fenoler; Polykondensat ur oxikarbonsyror eller mättade laktoner; Mättade eller omättade polyestrar, t.ex. sådana som innehåller fosfor eller bor; Alkydhartser [62-68]
- 39c-18 Kondensationsprodukter eller polymerisationsprodukter ur enbart aldehyder eller ketoner [-62]
- 39c-18 Polykondensat eller polymerisat ur enbart mättade aldehyder eller ketoner [62-68]
- 39c-19 Kondensationsprodukter ur karbonylföreningar med andra föreningar, som inte omfattas av föregående grupper [-62]
- 39c-19 Polykondensat ur aldehydföreningar eller ketoföreningar och andra föreningar, som inte omfattas av föregående grupper (med fenoler 39c-1; med karbamid eller dess derivat 39c-5; med aminer 39c-12) [62-68]
- 39c-20/01 Kondensationsprodukter ur mättade kolväten [-62]
- 39c-20/01 Polykondensat ur mättade kolväten, t.ex. med andra föreningar som inte omfattas av föregående grupper [62-68]
- 39c-20/02 Kondensationsprodukter ur acetylen med andra föreningar som inte omfattas av föregående grupper [-62]
- 39c-20/02 Polykondensat ur acetylen med andra föreningar som inte omfattas av föregående grupper [62-68]
- 39c-21 Kondensationsprodukter ur polysulfider under bildning av långkedjiga svavelföreningar (bearbetning 39b-4/03; organiska svavelföreningar 12o-23/03) [-62]
- 39c-21 Polykondensat ur polysulfider med andra föreningar [62-68]

	Polymerisationsprodukter ur omättade organiska föreningar (bearbetning av polymerisaten 39b-4/01, 39b-22/06) [-62]
39c-25/01	med en dubbelbindning, t.ex. vinylföreningar [-62]
39c-25/01	Polymerisat ur omättade organiska föreningar med en flerfaldig bindning eller med flera flerfaldiga bindningar som inte befinner sig i en genomgående kolkedja, t.ex. vinylföreningar eller diallylftalat (bearbetning av sådana polymerisat tillsammans med monomerer under formgivning 39b-22/06) [62-68]
39c-25/05	med flera dubbelbindningar, t.ex. butadien [-62]
39c-25/05	Polymerisat ur omättade organiska föreningar med flera flerfaldiga bindningar i en genomgående kolkedja, t.ex. butadien, divinylbensen eller vinylacetylen [62-68]

Anmärkning:

Sampolymerisat av omättade organiska föreningar med en flerfaldig bindning eller av omättade organiska föreningar med flera flerfaldiga bindningar klassas efter det utgångsämne vars mängd överväger (styreniserade oljor endast under 39c-25/01)

39c-30	Andra hartsartade kondensationsprodukter eller polymerisationsprodukter; t.ex. kiselhartser [-62]
39c-30	Andra plaster, t.ex. polyetrar, polytioetrar, polyepoxider, silikoner eller andra produkter, som förutom kol, väte syre, kväve, svavel eller halogen även innehåller andra element (fosforhaltiga eller borhaltiga polyestrar 39c-16) [62-68]

39g (IPC: B32B) Layered products, i.e. products built-up of strata of flat or non-flat, e.g. cellular or honeycomb, form **[72-]**

Note: **[72-]**

This subclass provides for subject-matter which is to a substantial extent covered by other classes of the classification; to this extent it provides only a secondary classification. These other classes are, however, for the most part confined to particular kinds of substances, and this subclass is necessary for classification of inventions of which the characteristic feature does not reside in the particular kind of substance used, or which essentially involve two or more substances or different kinds. This subclass also provides a basis for making a complete search in respect of layered products by enabling all relevant inventions (including those in which different kinds of substances are not involved) to be classified here, at least secondarily. It is hoped that the users of the classification will make full use of this subclass in classifying inventions, whether or not they can be classified primarily in other classes; only thus will the greatest benefit be obtained by all. **[72-]**

Notes on scope **[72-]**

1.

(a) In this subclass, a "layer" is a sheet or strip or anything else having a small thickness relatively to its other dimensions which, together with at least one other layer, exists in a product, whether it pre-existed, e.g. as a separate sheet or strip, or was formed during the production of the layered product. It may or may not be homogeneous or cohesive; it may be an assembly of fibres or pieces of material. It may be discontinuous, e.g. in the form of a grating, honeycomb, or frame. It may or may not be in complete contact with the next layer, e.g. a corrugated layer against a flat layer.

(b) A film formed on a layer by spreading a substance thereon is not considered to constitute a layer itself if it serves only as an adhesive or its purpose is merely to finish a surface of a product.

(c) A layered product is usual of uniform thickness and is usually flat overall e.g. in the form of a panel or semi-finished sheet material, but it

may have any other form (e.g. corrugated, box-like) in which the layered build-up resembles that which a flat sheet or panel might have

(d) This subclass also includes a product similar to that described in (c) but comprising only sheet or network of material embedded in a mass of plastics or of physically-similar substances which mass penetrates the said material and lies on both sides of the latter (e.g. so that the material reinforces the plastic substance) provided that the embedded material extends coherently or connectedly over substantially the whole area of the product; thus the embedded material may be a fabric or a series of rods connected by cross-wires, but if the embedded material comprises only a series only a series of unconnected rods, the product is not classified here. The manner of making such a product covered by this definitions is, however, only classified here if it is essentially a process of building-up an assembly of layers of which at least one outer layer is preformed.

(e) Products formed by joining (e.g. sewing) pre-existing fabrics or other textile layers (e.g. felt) or by treating (e.g. by thickly coating) existing fabrics are included in this subclass.

(f) A layered product may be an intermediate stage in the production of an article which is not layered in its final form, e.g. a panel with a protective layer which is stripped off when the panel is placed in its position of use.

[72-]

2. This subclass does not include the following:

(a) Products which are fully classifiable as articles in a single other class. These products should, however, be given a secondary classification in this subclass if features exist which are important to the subject of layered products apart from the purpose of the product, e.g. if a sheet of sandpaper has features concerning the backing or bonding which are applicable to sheets coated with non-abrasive particles.

(b) Processes and apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is fully classifiable in a single other class for processes or apparatus.

(c) Compositions and preparation or treatment thereof, unless the invention is essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction.

[72-]

3. The following observations are of importance in considering the elaborations of this subclass:

(a) In so far as methods and apparatus are classified in this subclass, groups designating products cover also methods and apparatus specially adapted for producing such products.

(b) The term "filamentary layer" means a layer of threads or filaments of any substance (e.g. wires) of more or less unlimited length placed in an orderly arrangement and secured together; it may be woven, knitted, braided, or netted, or formed of threads crossed or laid side by side and bonded together.

(c) The term "fibrous layer" means a random assembly of fibres or filaments, usually of limited length, e.g. felt, fleece; the fibres may or may not be interengaged or connected, e.g. by adhesive.

(d) For the purpose of primary classification of inventions, if there is any doubt as to which of the essential features of an invention is the most important (this is usually the most restrictive feature), the groups of this subclass should be considered in the order in which they appear, at each level of indentation, except where the contrary is indicated by precedence notes.

[72-]

39g-1/00	Layered products essentially having a general shape other than plane	[72-]
	Note:	[72-]
	For classification of a product in this group, surface unevennesses or non-uniformities and the shape of individual layers are ignored.	[72-]
39g-1/02	. Receptacles, e.g. tanks	[72-]
39g-1/04	. characterised by feature of form at particular places, e.g. in edge regions	[72-]
39g-1/06	. characterised by fillings or added members in hollow portions	[72-]
39g-1/08	. Tubular products	[72-]
39g-1/10	. Methods specially adapted for forming such products, e.g. by applying layers successively to a shaped base	[72-]
39g-3/00	Layered products essentially comprising a layer with external or internal discontinuities or unevennesses, or a layer of non-planar form (continuous layers of fibres or filaments 39g-5/02; foamed layers 39g-5/18); Layered products essentially having particular features of form (39g-1/00 takes precedence)	[72-]
	Note:	[72-]
	Channels, voids, and cavities may be filled otherwise than with air, e.g. with gas, with liquid, with other material different from that of the layer in which they occur.	[72-]
39g-3/02	. characterised by features of form at particular places, e.g. in edge regions	[72-]
39g-3/04	. . characterised by a layer folded at the edge, e.g. over another layer	[72-]
39g-3/06	. . for securing layers together; for attaching the product to another member, e.g. to a support (use or provision of nails, stitches, or similar separate fastening elements for these purposes 39g-7/08)	[72-]
39g-3/08	. . characterised by added members at particular parts	[72-]
39g-3/10	. characterised by a discontinuous layer, i.e. apertured or formed of separate pieces of material	[72-]
	Note:	[72-]
	A series of spaced separate elements forming in effect a broken surface should be regarded as a layer.	[72-]
39g-3/12	. . characterised by a layer of regularly-arranged cells whether integral or formed individually or by conjunction of separate strips, e.g. honeycomb structure	[72-]
39g-3/14	. . characterised by a face layer formed of separate pieces of material	[72-]
39g-3/16	. . . secured to a flexible backing	[72-]
39g-3/18	. . characterised by an internal layer formed of separate pieces of material	[72-]
39g-3/20	. . . of hollow pieces, e.g. tubes; of pieces with channels or cavities	[72-]
39g-3/22	. . . of spaced pieces	[72-]
39g-3/24	. . characterised by an apertured layer, e.g. of expanded metal (layer of netting or fibres 39g-5/02)	[72-]
39g-3/26	. characterised by a particular shape of the outline of the cross-section of a continuous layer; characterised by a layer with cavities or internal voids (regular cells 39g-3/12)	[72-]
39g-3/28	. . characterised by a layer comprising a deformed thin sheet, e.g. corrugated, crumpled	[72-]
39g-3/30	. . characterised by a layer formed with recesses or projections, e.g. grooved, ribbed	[72-]

39g-5/00	Layered products characterised by the non-homogeneity or physical structure of a layer (39g-9/00 to 39g-29/00 take precedence)	[72-]
	Note: Fibres, filaments, granules, or powder forming or included in a layer may be impregnated, bonded together, or embedded in a substance such as synthetic resin. If the substance of the fibres, etc., or the impregnating, bonding, or embedding substance, is important it is classified in the relevant group for the substance.	[72-] [72-]
39g-5/02	. Layered products characterised by structural features of a layer comprising fibres or filaments (layer of fibrous particles, e.g. chopped-up fibres, 39g-5/16)	[72-]
	Note: This group covers, in addition to filamentary and fibrous layers as defined in Note (3), layers of substances having an intrinsic fibrous nature (e.g. paper, wood), if the fibrous nature is important and the particular substance, per se, is not important.	[72-] [72-]
39g-5/04	. . characterised by a layer being specifically extensible by reason of its structure or arrangement	[72-]
39g-5/06	. . characterised by a fibrous layer needed to another layer, e.g. of fibres, of paper	[72-]
39g-5/08	. . the fibres or filaments of a layer being specially arranged or being of different substances	[72-]
39g-5/10	. . characterised by a fibrous layer reinforced with filaments	[72-]
39g-5/12	. . characterised by the relative arrangement of fibres or filaments of adjacent layers	[72-]
39g-5/14	. characterised by a layer differing constitutionally or physically in different parts, e.g. denser near its faces	[72-]
39g-5/16	. characterised by features of a layer formed of particles, e.g. chips, chopped fibres, powder	[72-]
39g-5/18	. characterised by features of a layer containing foamed or specifically porous material	[72-]
39g-5/20	. . foamed in situ	[72-]
39g-5/22	. characterised by the presence of two or more layers which comprise fibres, filaments, granules, or powder, or are foamed or specifically porous	[72-]
39g-5/24	. . one layer being a fibrous or filamentary layer	[72-]
39g-5/26	. . . another layer also being fibrous or filamentary	[72-]
39g-5/28	. . . impregnated with or embedded in a plastic substance	[72-]
39g-5/30	. . one layer comprising granules or powder	[72-]
39g-5/32	. . both layers being foamed or specifically porous	[72-]
39g-7/00	Layered products characterised by the relation between layers, i.e. products essentially comprising layers having different physical properties and products characterised by the interconnection of layers (in respect of orientation of features, see the relevant groups for the features concerned, e.g. 39g-5/02 for direction of fibres; in respect of substances 39g-9/00 to 39g-29/00)	[72-]
39g-7/02	. in respect of physical properties, e.g. hardness	[72-]
39g-7/04	. characterised by the connection of layers	[72-]
39g-7/06	. . permitting easy separation	[72-]
39g-7/08	. . by mechanical connection, e.g. stitching (by interengagement of layers 39g-3/00, e.g. 39g-3/04, 39g-3/06, 39g-3/30; by needling fibrous layers 39g-5/06)	[72-]
39g-7/10	. . one or both of the layers having adhesive or inter-reactive properties	[72-]
39g-7/12	. . using an adhesive	[72-]
39g-7/14	. . . applied in stripes or other spaced arrangement	[72-]

Layered products characterised by particular substances used		[72-]
Note:		[72-]
In the groups under this heading:		
(a) the term "specific substance" covers specified alternative substances if they are all covered by a single main group;		
(b) the term "particulate layer" means a layer of particles, e.g. chips, chopped fibres, powder.		[72-]
39g-9/00	Products essentially comprising a particular substance not covered by groups 39g-11/00 to 39g-29/00	[72-]
39g-9/02	. comprising animal or vegetable substances	[72-]
39g-9/04	. comprising such substance as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-9/06	. . of paper or cardboard	[72-]
39g-11/00	Products essentially comprising bituminous or tarry substances	[72-]
39g-11/02	. with fibres or particles embedded in it or bonded with it	[72-]
39g-11/04	. comprising such substance as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-11/06	. . of paper or cardboard	[72-]
39g-11/08	. . of metal	[72-]
39g-11/10	. next to a fibrous or filamentary layer	[72-]
39g-11/12	. next to a particulate layer	[72-]
39g-13/00	Products essentially comprising a water-setting substance, e.g. concrete, plaster, asbestos cement, or like builders' material	[72-]
39g-13/02	. with fibres or particles embedded in it or bonded with it	[72-]
39g-13/04	. comprising such substances as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-13/06	. . of metal	[72-]
39g-13/08	. . of paper or cardboard	[72-]
39g-13/10	. . of wood; of wood particle board	[72-]
39g-13/12	. . of synthetic resin	[72-]
39g-13/14	. next to a fibrous or filamentary layer	[72-]
39g-15/00	Products essentially comprising metal	[72-]
39g-15/02	. in a form other than a sheet, e.g. wire, particles	[72-]
39g-15/04	. comprising metal as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-15/06	. . of rubber	[72-]
39g-15/08	. . of synthetic resin	[72-]
39g-15/10	. . of wood	[72-]
39g-15/12	. . of paper or cardboard	[72-]
39g-15/14	. next to a fibrous or filamentary layer	[72-]
39g-15/16	. next to a particulate layer	[72-]
39g-15/18	. comprising iron or steel	[72-]
39g-15/20	. comprising aluminium or copper	[72-]
39g-17/00	Products essentially comprising sheet glass, or glass, slag or like fibres	[72-]
39g-17/02	. in the form of fibres or filaments	[72-]
39g-17/04	. . bonded with or embedded in a plastic substance	[72-]
39g-17/06	. comprising glass as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-17/08	. . of cellulosic plastic substance	[72-]
39g-17/10	. . of synthetic resin	[72-]
39g-17/12	. next to a fibrous or filamentary layer	[72-]
39g-19/00	Products essentially comprising natural mineral fibres or particles, e.g. asbestos, mica	[72-]
39g-19/02	. bonded with or embedded in a plastic substance	[72-]

39g-19/04	. next to another layer of a specific substance	[72-]
39g-19/06	. next to a fibrous or filamentary layer	[72-]
39g-19/08	. comprising asbestos	[72-]
39g-21/00	Products essentially comprising wood, e.g. wood board, veneer, wood particle board	[72-]
39g-21/02	. in the form of fibres, chips, or particles	[72-]
39g-21/04	. comprising wood as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-21/06	. . of paper or cardboard	[72-]
39g-21/08	. . of synthetic resin; of fibre-reinforced resin	[72-]
39g-21/10	. next to a fibrous or filamentary layer	[72-]
39g-21/12	. next to a particulate layer	[72-]
39g-21/14	. comprising wood board or veneer	[72-]
39g-23/00	Products essentially comprising cellulosic plastic substances	[72-]
39g-23/02	. in the form of fibres or filaments	[72-]
39g-23/04	. comprising such substance as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-23/06	. . of paper or cardboard	[72-]
39g-23/08	. . of synthetic resin	[72-]
39g-23/10	. next to a fibrous or filamentary layer	[72-]
39g-23/12	. next to a particulate layer	[72-]
39g-23/14	. characterised by containing special compounding ingredients	[72-]
39g-23/16	. . modifying agents	[72-]
39g-23/18	. . fillers	[72-]
39g-23/20	. comprising esters	[72-]
39g-23/22	. comprising ethers	[72-]
39g-25/00	Products essentially comprising natural or synthetic rubber	[72-]
39g-25/02	. with fibres or particles embedded in it or bonded with it	[72-]
39g-25/04	. comprising rubber as the main or only constituent of a layer, next to another layer of a specific substance	[72-]
39g-25/06	. . of paper or cardboard	[72-]
39g-25/08	. . of synthetic resin	[72-]
39g-25/10	. next to a fibrous or filamentary layer	[72-]
39g-25/12	. comprising natural rubber	[72-]
39g-25/14	. comprising copolymers in which synthetic rubber constituents predominate	[72-]
39g-25/16	. comprising polydienes or poly-halodienes	[72-]
39g-25/18	. comprising butyl or halobutyl rubber	[72-]
39g-25/20	. comprising silicone rubber	[72-]
39g-27/00	Products essentially comprising synthetic resin	[72-]
39g-27/02	. in the form of fibres or filaments	[72-]
39g-27/04	. as impregnant, bonding, or embedding substance	[72-]
39g-27/06	. as the main or only constituent of a layer next to another layer of a specific substance	[72-]
39g-27/08	. . of synthetic resin of a different kind	[72-]
39g-27/10	. . of paper or cardboard	[72-]
39g-27/12	. next to a fibrous or filamentary layer	[72-]
39g-27/14	. next to a particulate layer	[72-]
39g-27/16	. specially treated, e.g. irradiated	[72-]
39g-27/18	. characterised by the use of special additives	[72-]
39g-27/20	. . using fillers, pigments, thixotroping agents	[72-]
39g-27/22	. . using plasticisers	[72-]
39g-27/24	. . using solvents or swelling agents	[72-]
39g-27/26	. . using curing agents	[72-]
39g-27/28	. comprising copolymers of synthetic resins not wholly covered by any one of the following subgroups	[72-]
39g-27/30	. comprising vinyl resin; comprising acrylic resin	[72-]
39g-27/32	. comprising polyolefins	[72-]
39g-27/34	. comprising polyamides	[72-]

39g-27/36	. comprising polyesters	[72-]
39g-27/38	. comprising epoxy resin	[72-]
39g-27/40	. comprising polyurethanes	[72-]
39g-27/42	. comprising melamine, urea, phenol, or similar aldehyde condensation resins	[72-]
39g-29/00	Products essentially comprising paper or cardboard	[72-]
39g-29/02	. next to a fibrous or filamentary layer	[72-]
39g-29/04	. next to a particulate layer	[72-]
39g-29/06	. specially treated, e.g. surfaced, parchmented	[72-]
39g-31/00	Making layered products (making non-planar products 39g-1/00; making products characterised by particular features of structure or of composition, see the relevant groups for such products)	[72-]
	Note:	[72-]
	Layered products may also be classified here if the invention does not reside in their structure or composition per se.	[72-]
39g-31/02	. involving assembly of a non-flat intermediate product, e.g. forming a tube and then flattening it	[72-]
39g-31/04	. characterised by assembling pre-formed layers	[72-]
39g-31/06	. . accompanied by formation of a layer between them	[72-]
39g-31/08	. . involving the assembly of two or more webs of indefinite length	[72-]
39g-31/10	. . involving the assembly of a web or webs together with a succession of separate panels or pieces of material	[72-]
39g-31/12	. . combined with coating or other treatment of a layer before or during assembly	[72-]
39g-31/14	. characterised by treatment of assembled layers	[72-]
39g-31/16	. . mechanically	[72-]
39g-31/18	. . . by cutting or otherwise severing	[72-]
39g-31/20	. . . by pressing, with or without heat	[72-]
39g-31/22	. . . by surface treatment	[72-]
39g-31/24	. . non-mechanically	[72-]
39g-31/26	. . . by heat (39g-31/20 takes precedence)	[72-]
39g-31/28	. . . by radiation other than infra-red	[72-]
39g-31/30	. characterised by layered material being formed by means of extruding apparatus	[72-]
39g-33/00	Layered products characterised by particular properties or particular surface features, e.g. particular surface coatings (surface unevennesses or non-uniformities 39g-3/00); Layered products designed for particular purposes not covered by another single class	[72-]
39g-35/00	Operations or devices concerned specially with layered products and not otherwise provided for, e.g. for repairing	[72-]