

26 Manufacture of gas by extraction from fuels, e.g. of coal and oil gas; Fuel gas production by wet processes; Fuel gas production by carburetting; Purification of distillation gas and acetylene

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- 26a Gas production by dry distillation with gasification of the fuels and subsequent treatment of the gases**
 - 26b Fuel gas production by wet methods, especially acetylene production**
 - 26c Fuel gas manufacture by carburetting, especially air**
 - 26d Purification of the distillation gases obtained from combustible materials, purification of acetylene**
 - 26e Charging and discharging apparatus for gas retorts**
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26a Gas production by dry distillation with gasification of the fuels and subsequent treatment of the gases

Production by extraction from solid fuels, e.g. coal gas (when coke production is predominant 10a), **further treatment of distillation gases also with other gases**

- 26a-1/01 Gas production by dry distillation of solid fuels in general (26a-2; 10a; 24a-19; 24e)
 - 26a-1/02 Heating of gas producing ovens in general (24e-8)
 - 26a-2 Gas production by dry distillation with passing of gases and vapours through the substance being distilled (10a-21; 10a-24; 24e-1/01 – 24e-8)
 - 26a-3 Gas production by dry distillation of solid fuels to which other solids have been added (10a-18/01 – 10a-18/04)
 - 26a-4 Gas production by combined dry distillation of solid and liquid fuels
 - 26a-5 Gas production by dry distillation of solid fuels with subsequent gasification; gas extraction and gasification for the production of rich gas (24e)
 - 26a-6 Horizontal gas retorts and small chamber furnaces, graphite calcination
 - 26a-7 Inclined gas retorts and coal holders therefor
 - 26a-8/01 Vertical gas retorts and gas producing furnaces (10a-1/01; 10a-1/02; 10a-13)
 - 26a-8/02 Charging and discharging devices for vertical furnaces, if structurally connected as a unit
 - 26a-9 Gas production by extracting or gasification of underground deposits
- Gas production by dry distillation of liquid fuels: oil gas** (12r; 24b)
- 26a-10 Gas production by dry distillation of liquid fuels in general, oil gas
 - 26a-11 Gas production by dry distillation or by incomplete combustion of liquid fuels while passing gases or vapours through the retort, mixed oil gas (24b; 26c-11)
 - 26a-12 Gas production by dry distillation of liquid fuels in the presence of gases or vapours and solid bodies
 - 26a-13 Oil gas retorts
- Auxiliary apparatus for gas producing furnaces** (charging and discharging devices for gas retorts 26e)
- 26a-14 Closures and doors for gas producing furnaces (10a-12/01 – 10a-12/04; 12a; 12f; 24k; 24l; 47f)
 - 26a-15 Vertical tubes for gas producing and coking furnaces, devices for the prevention and removal of obstructions from vertical tubes and utilisation of the heat of the gases escaping through vertical tubes (10a-19/01 – 10a-19/03)

- 26a-16 Receivers for gas producing and coking furnaces, utilisation of the heat of the escaping gases in receivers or in immediate vicinity thereof (10a-19/01 – 10a-19/03; 24e; 26d-1/01 – 26d-1/40; 40a-36; 40a-19/18)
- 26a-17 Devices for expelling the gas from gas producing furnaces, excluding exhausters, gas circulation regulators (4c; 10a-19/01 – 10a-19/03; 27c; 27d)

Further treatment and utilisation of distillation gases also with other gases

- 26a-18/01 Thermal treatment of distillation gases in order to alter the composition during production, including the utilisation of pressure and catalysts, and decontamination
- 26a-18/02 Mixing fuel gases in conjunction with their production
- 26a-18/03 Thermal treatment of gas mixtures, also in conjunction with their production, and decontamination
- 26a-18/04 Preparation of gas mixtures from cold fuel gases
- 26a-18/10 Liquefied illuminating, condensation and liquefaction of illumination gas by compression, including subsequent carburetting
- 26a-18/11 Decomposition of distillation gases by compression and separation, especially by the use of cold
- 26a-19 Utilisation of fuel gas mixtures for special purposes

26b Fuel gas production by wet methods, especially acetylene production

Acetylene generators with gravity overhead water feed: drip system

- 26b-1 Poppet valves
- 26b-2 Cocks
- 26b-3 Miscellaneous closures
- 26b-4 Water feed from above through a central or lateral pipe
- 26b-5 Water feed from above through porous bodies (26b-20)
- 26b-6 Cartridge punchers for acetylene generators
- 26b-7 Special valves

Acetylene generators with feed regulation independent from the bell

- 26b-8 by means of diaphragms
- 26b-9 by means of floats (26b-31)
- 26b-10 by means of pistons
- 26b-11 by other means

Acetylene generators with feed regulation through the bell

- 26b-12 by the overflow of the water
- 26b-13 by drip-system operation water valves connected to the bell
- 26b-14 by drip-system operation water cocks connected to the bell
- 26b-15 by overflow-system operation water valves or cocks connected to the bell
- 26b-16 with movable water containers

Acetylene generators based on Kipp's principle

- 26b-17 with water fed from below
- 26b-18 with water fed from above

Acetylene generators based on Doebereiner's principle with stationary carbide bell

- 26b-19 in general (26b-20 – 26b-24)
- 26b-20 with water fed from below through porous bodies (26b-5)
- 26b-21 with the gas-outlet cock opened by the collecting bell
- 26b-22 with the dip depth of the gas-outlet pipe regulated by the gas collector
- 26b-23 with movable bell
- 26b-24 with moistening of the carbide on the lower surface only

Acetylene generators with carbide dipping, acetylene dip generator

- 26b-25 with inner and outer dipping of the carbide: the carbide is dipped into the sealing water within or outside the bell
- 26b-26 with separate sealing and generating water
- 26b-27 Dip-drip acetylene generators

Acetylene generators with carbide feed, with or without regulation by means of the gas pressure

- 26b-28 with hand carbide feed
- 26b-29 with closure devices on the filler well
- 26b-30 with carbide feed by means of flaps or slide valves
- 26b-31 with carbide feed by means of float valves (26b-9)
- 26b-32 with carbide feed by means of other valves
- 26b-33 with paddle wheels, metering valves, etc.
- 26b-34 with screw conveyors or belt conveyors
- 26b-35 with drum rotors, etc.
- 26b-36 with movable plate and stationary carbide container
- 26b-37/01 with carbide charging by means of cartridges
- 26b-37/02 with charging of loose carbide from containers or from the bell
- 26b-37/03 with carbide charging by means of pistons, etc.
- 26b-38 Acetylene generators with internal pressure
- 26b-39 Cartridges and cells for carbide, carbide boxes (26b-11)
- 26b-40 Storage of carbide cartridges
- 26b-41 Rotating carbide containers
- 26b-42 Storage of carbide, carbide cans, etc. (64a-64)
- 26b-43 Safety devices for acetylene generators (devices for the prevention of explosions in gas pipes, safety gasholders, check valves 4c-18)
- 26b-44/01 Methods for the generation of acetylene and for the preparation of acetylene-yielding preparations and acetylene solutions (vessels and refilling devices 17g-3)
- 26b-44/20 Filling materials and masses, solvents for acetylene containers
- 26b-45/01 Methods for the generation of mixtures of acetylene and other gases, e.g. hydrogen (49h-34/01 – 49h-34/03)
- 26b-45/20 Water lights, floating torches
- 26b-46 Carbide preparations
- 26b-47/01 Water closures and locking devices for acetylene generators
- 26b-47/02 Ventilation devices for acetylene generators, cooling of the generator
- 26b-47/03 Sludge removal from acetylene generators and utilisation of the acetylene lime sludge
- 26b-47/04 Drives of acetylene generators charging devices
- 26b-47/05 Carbide comminution
- 26b-47/50 Miscellaneous, in the field of gas production by the wet method

26c Fuel gas manufacture by carburetting, especially air (carburetting devices for engines 46c2)**Carburetting apparatus for the manufacture of producer gas**

- 26c-1 with fixed gas-inlet pipes
- 26c-2 with adjustable or floating gas-inlet pipes
- 26c-3 with carburetting material spray (46c2)
- 26c-4 for surface carburetting without porous bodies
- 26c-5 with porous inserts or fillers
- 26c-6 with air suction (4g-22)
- 26c-7 with rotating carburettors
- 26c-8 with regulation of the air and fuel feed, also according to consumption

- 26c-9 Carburetted by means of solid carburetted materials for the production of producer gas
- Carburetion agents, compositions and mechanical structure
- 26c-10/01 Illuminating-gas additives against freezing and naphthalene clogging
- 26c-10/02 Addition of odorous, irritating and perfuming materials to gases
- 26c-10/03 Carrier gases for carburetted purposes
- 26c-10/04 Heating devices
- 26c-10/05 Feeding devices
- 26c-10/06 Air compressing devices
- 26c-11 Carburetted of air by the use of heat (4g-23 – 4g-27; 26a-10 – 26a-12)
- 26c-12 Carburetted under elevated pressure

26d Purification of the distillation gases obtained from combustible materials, purification of acetylene

Coolers and condensers, tar separators and gas filters

- 26d-1/01 Coolers, condensers, heat exchangers (12e-2; 26a-16)
- 26d-1/10 Centrifuges (12e-3/05)
- 26d-1/20 Gas filters, screens and dust separators (12e)
- 26d-1/30 Electrical fuel gas purification (12e-5)
- 26d-1/40 Tar separators, tar and oil condensers, and methods for the extraction of tar and oil in condensers (26a-16; tar distillation 12r-1)
- 26d-1/50 Coolers and purifiers for gas generators mounted on vehicles, insofar as not modified by, or modifying, the structure and operation of the vehicle (gas producers for vehicles 24e-3/05; arrangement of coolers or purifiers on vehicles 63c-2)

Washers, scrubbers and dry purifiers (12e)

- 26d-2 Stationary gas washers and scrubbers
- 26d-3/01 Rotary gas washers with vertical and oblique axis (12e-2/01)
- 26d-3/10 Rotary gas washers with horizontal axis (12e-2/01)
- 26d-4 Spraying devices for gas washers and scrubbers
- 26d-5 Dry purifiers for fuel gases
- 26d-6 Hearths and grates for washers and dry purifiers
- 26d-7 Reversing devices for dry purifiers

Chemical and physicochemical purification of fuel distillation gases

Dry purification, purification by addition of gases and vapours or catalysts, oxidation or reduction

- 26d-8/01 of acid components, general (26d-9/01; 12i)
- 26d-8/02 of carbon dioxide (26d-9/02; 12i-35; 12i-31/20)
- 26d-8/03 of cyanogen (26d-9/03; 12k-8 – 12k-11; 12k-3/00)
- 26d-8/04 of sulphur (26d-9/04; 12i-17 – 12i-25; 12i-17/00)
- 26d-8/20 of carbon monoxide
- 26d-8/21 of water (26d-9/21; 12e-2/50)
- 26d-8/22 of acetylene (26d-9/22; 12o-19/01)
- 26d-8/30 Regeneration of purifying materials and catalysts
- 26d-8/50 Dry purification, general

Wet chemical gas purification

- 26d-9/01 of acid components, general (26d-8/01)
- 26d-9/02 of carbon dioxide (26d-8/02; 12i-35; 12i-31/20)
- 26d-9/03 of cyanogen (26d-8/03; 12k-8 – 12k-11; 12k-3/00)
- 26d-9/04 of sulphur (26d-8/04; 26d-9/11; 26d-10/01; 26d-13/01; 12i-17 – 12i-25; 12i-17/00)
- 26d-9/10 of basic components, ammonia (12k-1-7; 12k-1/00)

- 26d-9/11 of sulphur and ammonia, simultaneously (26d-8/04; 12k-1 – 12k-7; 12k-1/00; 12i-17 – 12i-25; 12i-17/00)
- 26d-9/20 of carbon monoxide (12i-34; 12i-31/18)
- 26d-9/21 of water (26d-8/21; 12e-2/50)
- 26d-9/22 of acetylene (26d-8/22; 12o-19/01)
- 26d-9/23 of naphthalene (26d-10/20; 26d-13/20)
- 26d-9/30 Regeneration of the washing liquids
- 26d-9/50 Wet chemical purification, general
- Gas purification agents containing oils or oil vapours
- 26d-10/01 Gas purification agents containing oils, general
- 26d-10/10 Benzene purification (26d-13/20)
- 26d-10/20 Naphthalene gas purification agents (26d-9/23; 26d-13/20)
- 26d-10/30 Phenol purification agents
- 26d-10/40 Acetylene purification agents (12o-19/01)
- 26d-10/50 Regeneration of washing oils
- 26d-11/01 Gas purification agents containing liquefied gases
- 26d-11/10 Gas purification agents containing mixtures of liquids
- Purification and separation of gas components by pressure and cold means (17g; 12e-3; production of liquid illuminating gas 26a-18/10)
- 26d-12/01 Gas purification methods using pressure and cold, fractional liquefaction
- 26d-12/10 Separation of gas components by liquefaction and fractional vaporisation
- 26d-12/20 Separation of gas components by diffusion (12e-3/04)
- 26d-13/01 Gas purification by means of adsorbents, general (12e-3/02)
- 26d-13/10 Gas purification by means of sulphur compound adsorbents (26d-8/03; 26d-8/04; 26d-9/03; 26d-9/04; 12e-3/02)
- 26d-13/20 Gas purification by means of hydrocarbon adsorbents (26d-10/01; 26d-10/10; 26d-10/20; 12e-3/02)
- 26d-14 Gas purification by other means
- 26d-20 Acetylene purification
- 26e Charging and discharging apparatus for gas retorts (81e-1 – 81e-24)**
- 26e-1 Chargers for horizontal gas retorts
- 26e-2 Chargers for inclined gas retorts
- 26e-3 Chargers for vertical retorts, insofar as not structurally connected with the retort (26a-8/01; 26a-8/02)
- 26e-4 Combined charging and discharging apparatus for horizontal gas retorts (10a-17/01 – 10a-17/10)
- 26e-5 Dischargers for horizontal or inclined retorts (10a-16/01; 10a-16/02)
- 26e-6 Dischargers for vertical retorts, insofar as not structurally connected with the retort (26a-8/01; 26a-8/02)