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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** Inclined gas retorts and small chamber furnaces, graphite calcination
- **26a-7** 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

26b-1 Acetylene generators with gravity overhead water feed: drip system

Poppet valves

Cocks

Miscellaneous closures

Water feed from above through a central or lateral pipe

Water feed from above through porous bodies (26b-20)

Cartridge punchers for acetylene generators

Special valves

Acetylene generators with feed regulation independent from the bell

by means of diaphragms

by means of floats (26b-31)

by means of pistons

by other means

Acetylene generators with feed regulation through the bell

by the overflow of the water

by drip-system operation water valves connected to the bell

by drip-system operation water cocks connected to the bell

by overflow-system operation water valves or cocks connected to the bell

with movable water containers

Acetylene generators based on Kipp's principle

with water fed from below

with water fed from above

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

in general (26b-20 – 26b-24)

with water fed from below through porous bodies (26b-5)

with the gas-outlet cock opened by the collecting bell

with the dip depth of the gas-outlet pipe regulated by the gas collector

with movable bell

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 Carburetting by means of solid carburetting 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 carburetting purposes
26c-10/04 Heating devices
26c-10/05 Feeding devices
26c-10/06 Air compressing devices
26c-11 Carburetting of air by the use of heat (4g-23 – 4g-27; 26a-10 – 26a-12)
26c-12 Carburetting 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 Hearthts 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)