SECTION C — CHEMISTRY; METALLURGY

C10 PETROLEUM, GAS OR COKE INDUSTRIES; TECHNICAL GASES CONTAINING CARBON MONOXIDE; FUELS; LUBRICANTS; PEAT

C10J PRODUCTION OF GASES CONTAINING CARBON MONOXIDE AND HYDROGEN FROM SOLID CARBONACEOUS MATERIALS BY PARTIAL OXIDATION PROCESSES INVOLVING OXYGEN OR STEAM (underground gasification of minerals E21B 43/295)**; CARBURETTING AIR OR OTHER GASES [5]**

1/00 Production of fuel gases by carburetting air or other gases (for internal-combustion engines F02M) **[1, 2006.01]**

1/02 • Carburetting air **[1, 2006.01]**
1/04 • • Controlling supply of air **[1, 2006.01]**
1/06 • • with materials which are liquid at ordinary temperatures **[1, 2006.01]**
1/08 • • • by passage of air through or over the surface of the liquid **[1, 2006.01]**
1/10 • • • • with the liquid absorbed on carriers **[1, 2006.01]**
1/12 • • • by atomisation of the liquid **[1, 2006.01]**
1/14 • • • Controlling the supply of liquid in accordance with the air supply **[1, 2006.01]**
1/16 • • with solid hydrocarbons (C10J 1/207, C10J 1/213 take precedence) **[1, 2006.01]**
1/18 • • in rotary carburettors **[1, 2006.01]**
1/20 • Carburetting gases other than air **[1, 2006.01]**
1/207 • Carburetting by pyrolysis of solid carbonaceous material in a fuel bed (C10J 3/66 takes precedence) **[2012.01]**
1/213 • Carburetting by pyrolysis of solid carbonaceous material in a carburettor **[2012.01]**
1/22 • Adding materials to prevent vapour deposition **[1, 2006.01]**
1/24 • Controlling humidity of the air or gas to be carburetted **[1, 2006.01]**
1/26 • using raised temperatures or pressures (C10J 1/207, C10J 1/213 take precedence) **[1, 2006.01]**
1/28 • Odorising air gas **[1, 2006.01]**

3/00 Production of gases containing carbon monoxide and hydrogen, e.g. synthesis gas or town gas, from solid carbonaceous materials by partial oxidation processes involving oxygen or steam [1, 2006.01]

3/02 • Fixed-bed gasification of lump fuel **[1, 2006.01]**
3/04 • • Cyclic processes, e.g. alternate blast and run **[1, 2006.01]**
3/06 • • Continuous processes **[1, 2006.01]**
3/08 • • • with ash-removal in liquid state **[1, 2006.01]**
3/10 • • • using external heating **[1, 2006.01]**
3/12 • • • using solid heat-carriers **[1, 2006.01]**
3/14 • • • using gaseous heat-carriers **[1, 2006.01]**
3/16 • • • simultaneously reacting oxygen and water with the carbonaceous material **[1, 2006.01]**
3/18 • • • using electricity **[1, 2006.01]**
3/20 • • Apparatus; Plants **[1, 2006.01]**
3/22 • • • Arrangements or dispositions of valves or flues **[1, 2006.01]**
3/24 • • • • to permit flow of gases or vapours other than upwardly through the fuel bed **[1, 2006.01]**
3/26 • • • • • downwardly **[1, 2006.01]**
3/28 • • • • fully automatic **[1, 2006.01]**
3/30 • • • Fuel charging devices **[1, 2006.01]**
3/32 • • • Devices for distributing fuel evenly over the bed for stirring-up the fuel bed **[1, 2006.01]**
3/34 • • • Grates; Mechanical ash-removing devices **[1, 2006.01]**
3/36 • • • • Fixed grates **[1, 2006.01]**
3/38 • • • • • with stirring beams **[1, 2006.01]**
3/40 • • • • Movable grates **[1, 2006.01]**
3/42 • • • • • Rotary grates **[1, 2006.01]**
3/44 • • • adapted for use on vehicles **[1, 2006.01]**
3/46 • Gasification of granular or pulverulent fuels in suspension **[1, 2006.01]**
3/48 • • Apparatus; Plants **[1, 2006.01]**
3/50 • • • Fuel charging devices **[1, 2006.01]**
3/52 • • • Ash-removing devices **[1, 2006.01]**
3/54 • • Gasification of granular or pulverulent fuels by the Winkler technique, i.e. by fluidisation **[1, 2006.01]**
3/56 • • • Apparatus; Plants **[1, 2006.01]**
3/57 • Gasification using molten salts or metals (C10J 3/02, C10J 3/46 take precedence) **[4, 2006.01]**
3/58 • combined with pre-distillation of the fuel **[1, 2006.01]**
3/60 • • Processes **[1, 2006.01]**
3/62 • • • with separate withdrawal of the distillation products **[1, 2006.01]**
3/64 • • • with decomposition of the distillation products **[1, 2006.01]**
3/66 • • • • by introducing them into the gasification zone **[1, 2006.01]**
3/72 • Other features **[1, 2006.01]**
3/74 • • Construction of shells or jackets **[1, 2006.01]**
3/76 • • • Water jackets; Steam boiler jackets **[1, 2006.01]**
3/78 • • High-pressure apparatus **[1, 2006.01]**
3/80 • • with arrangements for preheating the blast or the water vapour **[1, 2006.01]**
3/82 • • Gas withdrawal means **[1, 2006.01]**
3/84 • • • with means for removing dust or tar from the gas **[1, 2006.01]**
3/86 • • combined with waste-heat boilers **[1, 2006.01]**