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|------|---|------|-------------------------------|
| | ACETYLENE | 45 |Dip |
| 1 | .Generation and liquefaction | 46 | ...Measured charges |
| 2 | .Generator and holder | 47 |Cartridges |
| 3 R | .Generator and mixer | 48 |Rotary carrier |
| 3 A | ..Special features | 49 |Vertical |
| | .Generators | 50 |Stationary |
| 4 | ..Water feed | 51 | ...Piston |
| 5 | ...Holder operated | 52 | ...Plate valve |
| 6 |Series | 53 | ...Pop valve |
| 7 |Automatic switch | 53.1 |Bell operated |
| 8 |Cell series | 53.2 |Bell and holder combined |
| 9 |Gasometer and high-pressure holder | 53.3 |Diaphragm operated |
| | | 53.4 |Float operated |
| 10 |Interior valve | 54 | ...Screw |
| 11 |Rotary cylinder | 55 | ...Slide valve |
| 12 |Underfeed | 58 | ..Valves, gas and water feed |
| 13 |Valveless | 56 | ..Automatic safety escape |
| 14 |Displacer | 57 | ..Sludge remover |
| 15 |Flexible tube | 59 | .Carbide cartridges |
| 16 |Generator supported | 60 | ..Conglomerate |
| 17 |Siphon | 61 | GENERATORS |
| 18 |Tilting | | .Hydrogen |
| 19 | ..Ebb and flow | 116 | ..Carburetor |
| 20 |Series | 117 | ...Air |
| 21 |Cell series | 118 | ...Floating oil |
| 22 |Concentric | 62 R | .Cupola |
| 23 | ...Series | 71 | ..Coal, oil and water |
| 24 | ...Cell series | 72 | ..Coal and oil |
| 25 | ...Capillary | 73 | ..Coal and water |
| 26 |Adjustable | 76 | ..Producers |
| 27 | ...Percolating | 77 | ..Coal |
| 28 |Pressure valves | 78 | ..Water |
| 29 | ...Expansible carbide container | 79 | ...Carburetor |
| 30 | ...Expansible water holder | 80 |Fixer |
| 31 | ...Inexpansible gas holder and water feed | 81 |Retort |
| | | 84 | ...Oil gas |
| 32 R | ...Oscillating | 82 | ...Up-and-down run |
| 32 A |Floating generator or carbide container | 83 |Interlocking valves |
| | | 85 | ..Carbon monoxide |
| 32 B |With inversion to contact carbide | 75 | ..Oil and steam injected |
| | | 63 | ..Air and steam injected |
| 33 | ...Rotary cylinder | 64 | ...Superheated |
| 34 | ...Rotary grate | 65 | ..Electric |
| 35 | ...Underfeed | 66 | ..Rotary bottom |
| 36 | ...Interlocking devices | 67 | ..Water jacket |
| 37 | ...Pressure valves | 68 | ...Rotary bottom |
| 38 | ..Carbide feed | 69 | ..Water-seal pit |
| 39 | ...Apron or belt | 74 | ..Refractory filling |
| 40 | ...Cock | | ..Fuel agitating |
| 41 | ...Dip | 85.1 | ...Movable wall |
| 42 |Cell series | 85.2 | ...Stirrer |
| 43 | ...Flap valve | 86 R | ..Chargers |
| 44 | ...Hand | 86 A | ...Gas making underfeed |

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| 87 | ..Accessories | 176 | .Bell and tank |
| 62 A | ..Partial combustion carburetor | 177 | ..Sectional bell |
| 89 | .Retort | 178 | .Collapsible |
| 98 | ..Coal, oil and water | 179 | .Tank |
| 99 | ..Coal and water | 180.1 | MIXERS |
| 100 | ..Coal and oil | 181 | .Bell and tank |
| 101 | ..Coal | 182 | ..Anterior |
| 102 R | ..Oil | 183 | ..Posterior |
| 103 | ...Electric heater | 184 | .Diaphragm |
| 104 | ...Jet mixers | 185 | .Gravity |
| 105 | ...Steam injected | 186 | .Pump |
| 106 | ...Automatic feed | 187 | .Rotary drum |
| 107 | ...Air injected | 188 | ..Anterior |
| 102 A | ...Utilizing heat from exhaust gases | 189 | ..Posterior |
| 108 | ..Water | 189.1 | .Three or more different fluids entering apparatus |
| 109 | ...Carburetor | 189.2 | .With heating means |
| 110 | ...Oil gas | 189.3 | .Auxiliary air inlet |
| 111 | ..Wood | 189.4 | .Mixer in flow path of existing mixture |
| 112 | ...Oil | 189.5 | ..Rotating mixer |
| 92 | ..Metal bath | 189.6 | ..Includes element made of engaged strands or fibers, e.g., screen, fabric, etc. |
| 93 | ..Oil and gas injected | 190 | DISTRIBUTION |
| 94 | ..Oil and steam injected | 191 | .Regulating pressure |
| 95 | ...Air | 192 | .Safety devices |
| 96 | ...Carburetor | 193 | .Leakage |
| 90 | ..Domestic plants | 194 | ..Preventing |
| 113 | ..Furnaces | 195 | ..Odorizers |
| 118.5 | .Portable | 197 R | PROCESSES |
| 119 | RETORTS | 198.1 | .Manufacture from methane (natural gas) |
| 120 | .Compounds | 198.2 | ..Employing carbon particles, porous barrier element or molten material |
| 122 | .Inclined | 198.3 | ..With specified treatment of converted product, e.g., purification, particular cooling, testing, etc. |
| 123 | .Vertical | 198.5 | ..Employing oxygen donor particles or carbide metal particles |
| 124 | .Lids | 198.6 | ..Specified direction of gas travel through particle mass, e.g., fluidization, flow reversal, etc. |
| 126 | .Attachments | 198.7 | ..Employing catalytic particles |
| 127.1 | CONVERSION OF HYDROCARBON GAS AND BLENDING OF PRODUCT WITH FURTHER HYDROCARBON GAS, PROCESS | 198.8 | ..With specified reactant velocity, angle of entry to reactor or mechanical energy production, e.g., use of internal combustion engine, etc. |
| 127.3 | METHANE (NATURAL GAS) -CONTAINING PRODUCT, OR TREATMENT OR RECOVERY PROCESS | | |
| 127.5 | .Process including chemical reaction | | |
| 127.7 | ..Catalytic | | |
| 127.9 | APPARATUS FOR CONVERTING OR TREATING HYDROCARBON GAS | | |
| 144 | CARBURETORS | | |
| 160 | .Gravity | | |
| 128 | PURIFIERS | | |
| 170 | CENTER AND BY-PASS VALVES | | |
| 173 | EXHAUSTERS | | |
| 174 | HOLDERS | | |
| 175 | .High-pressure safety escape | | |

.Hydrogen
 199 R ..Carbureting
 199 FM ...Fuel mixtures
 200 .Coal, oil and water
 201 .Coal and oil
 202 .Coal and water
 203 .Producer
 204 .Water
 205 ..Carbureting
 206 ..Continuous
 207 ..Down run
 208 ..Up-and-down run
 209 .Wood
 210 .Coal
 211 .Oil
 212 ..Air injected
 213 ..Gas injected
 214 R .Oil and steam injected
 215 ..Air
 214 A ..Catalytic processes
 216 .Acetylene
 217 ..Slow
 219 .Carbureting
 197 FM .Fuel mixtures
 197 A .Sewage treatment

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DIGESTS

DIG 1 **RECIRCULATION OF GASES PRODUCED
 TO LOWER PART OF FUEL BED**
 DIG 2 **SLAGGING PRODUCER**
 DIG 3 **HIGH PRESSURE**
 DIG 4 **POWDERED FUEL INJECTION**
 DIG 5 **DIFFUSION MEMBRANE FOR GAS
 REACTION OR SEPARATION**
 DIG 6 **UNDERGROUND GASIFICATION OF COAL**
 DIG 7 **SLURRY**
 DIG 8 **INTERNAL COMBUSTION ENGINE FOR
 GAS MAKING**
 DIG 9 **SOLAR GASIFICATION**
 DIG 10 **COMPUTER RESISTED CONTROL**

