

	<b>ACETYLENE</b>	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	<b>GENERATORS</b>
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

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	<b>MIXERS</b>
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		
92	..Metal bath	189.5	..Rotating mixer
93	..Oil and gas injected	189.6	..Includes element made of engaged strands or fibers, e.g., screen, fabric, etc.
94	..Oil and steam injected		
95	...Air		
96	...Carburetor	190	<b>DISTRIBUTION</b>
90	..Domestic plants	191	.Regulating pressure
113	..Furnaces	192	.Safety devices
118.5	.Portable	193	.Leakage
119	<b>RETORTS</b>	194	..Preventing
120	.Compounds	195	..Odorizers
122	.Inclined	197 R	<b>PROCESSES</b>
123	.Vertical	198.1	.Manufacture from methane (natural gas)
124	.Lids	198.2	..Employing carbon particles, porous barrier element or molten material
126	.Attachments	198.3	..With specified treatment of converted product, e.g., purification, particular cooling, testing, etc.
127.1	<b>CONVERSION OF HYDROCARBON GAS AND BLENDING OF PRODUCT WITH FURTHER HYDROCARBON GAS, PROCESS</b>	198.5	..Employing oxygen donor particles or carbide metal particles
127.3	<b>METHANE (NATURAL GAS) -CONTAINING PRODUCT, OR TREATMENT OR RECOVERY PROCESS</b>	198.6	..Specified direction of gas travel through particle mass, e.g., fluidization, flow reversal, etc.
127.5	.Process including chemical reaction	198.7	..Employing catalytic particles
127.7	..Catalytic	198.8	..With specified reactant velocity, angle of entry to reactor or mechanical energy production, e.g., use of internal combustion engine, etc.
127.9	<b>APPARATUS FOR CONVERTING OR TREATING HYDROCARBON GAS</b>		
144	<b>CARBURETORS</b>		
160	.Gravity		
128	<b>PURIFIERS</b>		
170	<b>CENTER AND BY-PASS VALVES</b>		
173	<b>EXHAUSTERS</b>		
174	<b>HOLDERS</b>		
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

#### **FOREIGN ART COLLECTIONS**

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

#### **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**

