

1	FAULT RECOVERY	47	...Time and wavelength
2	.Bypass inoperative element	48	..Wavelength
3	..In a ring or loop	49	...Router
4	...Using a secondary ring or loop	50	...Crossconnect
5	..Spare channel or standby optical fiber	51	...Including photonic packet switching
6	.In a repeater system	52	..Time
7	.WDM	53	...Including delay
8	.TDM	54	...Including photonic packet switching
9	DIAGNOSTIC TESTING	55	..space
10	.Fault location	56	...Crossconnect
11	..Repeater	57	...Path finding or path routing
12	..Switch	58	.Optical local area network (LAN)
13	..Fiber or waveguide	59	..Ring or loop
14	..WDM	60	..Bus
15	..Stop transmission or reduce power	61	..Active star
16	.Test signal	62	...Repeater
17	.Fault detection	63	..Passive star
18	..Repeater	64	...Repeater
19	..Switch	65	.Polarization
20	..Optical fiber	66	.Broadcast and distribution system
21	...Determined by reflection from break in fiber	67	..Bidirectional
22	..Transceiver	68	..WDM
23	..Transmitter	69	...With variable frequency channel assignment
24	..Receiver	70	...Hub or central office
25	.Determination of communication parameter	71Including subscribers
26	..Signal to noise ratio	72Bidirectional
27	..Bit error rate	73	...Bus
28	..Fiber characteristic	74	.Hybrid
29	...Dispersion	75	..Time and wavelength division
30	..Using supervisory signal	76	.Subcarrier multiplexing
31	...Different wavelengths for diagnostic and communication	77	.Code division multiplexing
32	...Pilot signal	78	..Multiple Access (e.g., CDMA)
33	...Monitoring	79	.Wavelength division or frequency division (e.g., Raman, Brillouin, etc.)
34	..WDM system	80	..Soliton
35	..TDM system	81	..Dispersion compensation
36	..Collision detection	82	..By optical coupling
37	..Amplifier or repeater operation	83	...Add or drop
38	..Power	84	...Grating
39	INTERFERENCE SIGNAL TRANSMISSION OR ELIMINATION (E.G., JAMMING OR ANTIJAMMING)	85Filter
40	EAVESDROPPING	86	...Prism
41	DUPLEX	87	...Grating
42	.Wavelength division	88	...Lens
43	MULTIPLEX	89	..Multiple Access (e.g., WDMA)
44	.Mode	90	..Electrically controlled single source
45	.Optical switching	91	..Different sources
46	..Hybrid	92	...Including pumping

93	...Including feedback	136	.Including compensation
94	...Power control	137	.Including feedback
95	...Wavelength control	138	.Single device as transmitter and receiver
96	.Through free space		.Including optical fiber or waveguide
97	.Repeater	139	TRANSMITTER AND RECEIVER SYSTEM
98	.Time division		.Including optical waveguide
99	.Multiple access (e.g., TDMA, CSMA)	140	..Specific type of fiber or waveguide
100	..Subscriber system	141	...Multimode
101	..By specific optical element	142	...Monomode
102	..Including delay	143	..Redundant fibers
103	..Through free space	144	..Soliton
104	UNDERWATER	145	..Dispersion compensation
105	.Cable repeater	146	...Using dispersion compensation optical fiber (e.g., DCOF)
106	REMOTE CONTROL	147	...Using equalizing filter (e.g., interferometer, grating)
107	.Bidirectional (i.e., monitoring or acknowledge)	148	...Using optical phase conjugation
108	..Interrogator system	149	.Presence detection
109	.In industrial environment or hazardous environment	150	.Including polarization
110	..Through optical fiber or waveguide	151	.One transmitter, plural receivers
111	.Switching	152	..Including synchronization
112	.Plural	153	..Clock recovery
113	.Through optical fiber or waveguide	154	.Including alignment between transmitter and receiver
114	.Rotating part	155	.Including pumping
115	HYBRID COMMUNICATION SYSTEM (E.G., OPTICAL AND RF)	156	.Including compensation
116	.Including specific optical interface	157	..Reducing distortion or dispersion
117	..Housing or mounting	158	..Using optical amplifier
118	OPTICAL COMMUNICATION OVER FREEE SPACE	159	..Using delay
119	.Compensation	160	.Including feedback from receiver
120	..Power control	161	.Including electrical oscillator
121	.Satellite system	162	.Including optical circuit board
122	..Including alignment	163	.Plural stations
123	...Feedback control	164	..Address directing connections
124	..Space to space	165	..Unidirectional or loopback
125	..Space to ground or ground to space	166	..Central or master station
126	.Specific repeater	167	.Passive system
127	.In an office environment	167.5	..Retroreflection
128	.Transceivers	168	.Retrorefraction
129	..Including alignment	169	.Received signal supplies power distribution to diverse devices
130	.Transmitter and receiver	170	.Including visible light modulation
131	..Including alignment	171	OPTICAL REPEATER SYSTEM
132	PHOTOPHONE	172	.Demodulating
133	.Specific transducer	173	.Regenerative
134	..Including optical fiber or waveguide	174	
135	OPTICAL TRANSCEIVER	175	

176 ..Modulation conversion
 177 .Monitoring
 178 .Specific optical waveguide
 179 ..Soliton
 180 .Specific optical elements
 181 .Supervisory signal by repeater
182 TRANSMITTER
 183 .Having particular modulation
 184 ..Including polarization
 185 ..Hybrid modulation
 186 ..Intensity modulation
 187 ..Frequency modulation
 188 ..Phase modulation
 189 ..Pulse modulation
 190 ...Pulse-code
 191 ...Pulse time
 192 .Including compensation
 193 ..Precompensation (e.g.,
 prechirping, predistortion
 194 ..For noise or distortion
 195 ..Including feedback
 196 ...For wavelength control
 197 ...For power control
 198 ...For modulator control
 199 .Chirping
 200 .Including optical waveguide
 201 .Including specific optical
 elements
202 RECEIVER
 203 .Homodyne
 204 .Heterodyne
 205 ..Including polarization
 206 ...Having feedback
 207 ..Specific optical elements
 208 .Including postcompensation
 209 ..Feedback
 210 ..Amplitude
 211 ..Intermodulation
 212 .Including optical element (e.g.,
 lens, mirror, etc.)
 213 ..Having feedback
 214 .Including optical waveguide

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 OPTICAL COMMUNICATION (359/109)
 FOR 101 .Diagnostic testing of optical communication (359/110)
 FOR 102 .Interference signal transmission or elimination (e.g., jamming or antijamming (359/111)
 FOR 103 .Eavesdropping (359/112)
 FOR 104 .Duplex (359/113)
 FOR 105 ..Wavelength division (359/114)
 FOR 106 .Multiplex (359/115)
 FOR 107 ..Mode (359/116)
 FOR 108 ..Spatial or switching (359/117)
 FOR 109 ..Optical local area network (LAN) (359/118)
 FOR 110 ...Loop (359/119)
 FOR 111 ...Active star (359/120)
 FOR 112 ...Passive star (359/121)
 FOR 113 ..Polarization (359/122)
 FOR 114 ..Time and frequency division (359/123)
 FOR 115 ..Wavelength division/frequency division (includes scattering, e.g., Raman, Brillouin, etc.) (359/124)
 FOR 116 ...Subscriber system (359/125)
 FOR 117Optical source at only one station (359/126)
 FOR 118 ...By optical coupling (359/127)
 FOR 119Switch (359/128)
 FOR 120Prism (359/129)
 FOR 121Grating (359/130)
 FOR 122Lens (359/131)
 FOR 123 ...Single source, electrically controlled (359/132)
 FOR 124 ...Different sources (359/133)
 FOR 125With pump (359/134)
 FOR 126 ..Time division (359/135)
 FOR 127 ...Multiple access (e.g., CSMA, CDMA) (359/136)
 FOR 128 ...Subscriber system (359/137)
 FOR 129 ...By specific optical element (359/138)
 FOR 130Optical switch (359/139)

FOREIGN ART COLLECTIONS**FOR 000 CLASS-RELATED FOREIGN DOCUMENTS**

FOR 131 ...With delay (359/140)
 FOR 132 .Underwater (359/141)
 FOR 133 .Remote control (359/142)
 FOR 134 ..Bidirectional (i.e., monitoring
 or acknowledge) (359/143)
 FOR 135 ..In industrial environment
 (e.g., robot control) (359/
 144)
 FOR 136 ..With radio link (359/145)
 FOR 137 ..With television or radio system
 (359/146)
 FOR 138 ..Switching (359/147)
 FOR 139 ..Plural functions (359/148)
 FOR 140 .Photophone (359/149)
 FOR 141 ..Transducer, per se (359/150)
 FOR 142 ...With optical fiber or
 waveguide (359/151)
 FOR 143 .Optical transceiver (359/152)
 FOR 144 ..Including compensation (359/
 153)
 FOR 145 .Transmitter and receiver system
 (359/154)
 FOR 146 ..Presence detector (359/155)
 FOR 147 ..With polarization (359/156)
 FOR 148 ..One transmitter, plural
 receivers (359/157)
 FOR 149 ..With synchronization (359/158)
 FOR 150 ..With alignment between
 transmitter and receiver (359/
 159)
 FOR 151 ..With pumping (359/160)
 FOR 152 ..With compensation (359/161)
 FOR 153 ..With electrical oscillator
 (359/162)
 FOR 154 ..With optical circuit board
 (359/163)
 FOR 155 ..Plural stations (359/164)
 FOR 156 ...Address directing connections
 (359/165)
 FOR 157 ...Unidirectional or loopback
 (359/166)
 FOR 158 ...Central or master station
 (359/167)
 FOR 159 ..Passive system (359/168)
 FOR 160 ...Retroreflection (359/169)
 FOR 161 ..Retroreflection (359/170)
 FOR 162 ..Received signal supplies power
 distribution to diverse
 devices (359/171)
 FOR 163 ..Satellite communications (359/
 172)
 FOR 164 ..Including optical waveguide
 (359/173)
 FOR 165 .Optical repeater system (359/
 174)
 FOR 166 ..Demodulating (359/175)
 FOR 167 ..Regenerative (359/176)
 FOR 168 ...Monitoring (359/177)
 FOR 169 ..Star (359/178)
 FOR 170 ..Including optical waveguide
 (359/179)
 FOR 171 .Transmitter (359/180)
 FOR 172 ..With particular modulation
 (359/181)
 FOR 173 ...Frequency modulation (359/182)
 FOR 174 ...Phase modulation (359/183)
 FOR 175 ...Pulse modulation (359/184)
 FOR 176Pulse-code (359/185)
 FOR 177Pulse time (359/186)
 FOR 178 ..With feedback (359/187)
 FOR 179 ..Including optical waveguide
 (359/188)
 FOR 180 .Receiver (359/189)
 FOR 181 ..Homodyne (359/190)
 FOR 182 ..Heterodyne (359/191)
 FOR 183 ...With polarization (359/192)
 FOR 184 ..With optical element (e.g.,
 lens, mirror, etc.) (359/193)
 FOR 185 ..Automatic gain control (359/
 194)
 FOR 186 ..With optical waveguide) (359/
 195)