

1	<b>TEMPORAL OPTICAL MODULATION WITHIN AN OPTICAL WAVEGUIDE</b>	41	...Directional coupler
2	.Electro-optic	42	..Directional coupler
3	..Phase modulation type	43	..Tapered coupler
4	<b>DIRECTIONAL OPTICAL MODULATION WITHIN AN OPTICAL WAVEGUIDE</b>	44	.."T" coupler or duplex coupler
5	.Light intensity dependent (e.g., nonlinear effects)	45	.."Y" coupler
6	.Magneto-optic	46	..Star coupler
7	.Acousto-optic	47	..Multiport coupler using reflective surface
8	.Electro-optic	48	..Access couplers, power tappers, or power dividers
9	..Coupling between waveguides	49	..Fiber to thin film devices
10	..Diffraction grating (e.g., Bragg)	50	..Waveguide to waveguide
11	<b>POLARIZATION WITHOUT MODULATION</b>	51	.Permanently fixed coupler
12	<b>OPTICAL WAVEGUIDE SENSOR</b>	52	.With alignment device
13	.Including physical deformation or movement of waveguide	53	<b>WITH DISENGAGABLE MECHANICAL CONNECTOR</b>
14	<b>INTEGRATED OPTICAL CIRCUIT</b>	54	.Structure surrounding optical fiber bundle-to-bundle connection
15	<b>WITH OPTICAL COUPLER</b>	55	.Structure surrounding optical fiber-to-fiber connection
16	.Switch (i.e., switching from one terminal to another, not modulation)	56	..Multi-part (e.g., two pieces screwed together or bayonet latched)
17	..Matrix switch (i.e., M X N, where M and N are 3 or more)	57	...Magnetically actuated
18	..Reflective-type switch	58	...With additional structure at or immediately surrounding each optical fiber end face
19	..Stationary waveguides with movable opaque element	59	....Plural fiber-to-fiber connections
20	..Multiple pole multiple throw	60	....Fiber end held in ferrule
21	...Double pole multiple throw	61	.....Lens-shaped ferrule
22	..Single pole multiple throw (relay switch)	62	.....Compressively fixed (e.g., chuck, collet, crimp, set screws, etc.)
23	..Single pole single throw	63	....Plate-type holding structure (e.g., jewel)
24	.Plural (e.g., data bus)	64	....Plural rods or balls structure
25	.Movable coupler	65	....Groove-type holding structure
26	..Slip ring	66	....Tube-type holding structure
27	.Particular coupling function	67	.....Eccentric arrangement
28	..Coupling between modes in a waveguide or fiber	68	.....Capillary tubes
29	...Mode strippers	69	...With additional structure rearward of fiber joint to secure additional cable layers
30	..Evanescent wave coupling	70	..With additional structure at or immediately surrounding each optical fiber end face
31	.Input/output coupler	71	...Plural fiber-to-fiber connections
32	..Coupling light through a waveguide bend or loop	72	...Fiber end held in ferrule
33	..Lens		
34	...Rod type		
35	...Spherical		
36	..Prism		
37	..Grating		
38	..End fire		
39	.Particular coupling structure		
40	..Electrodes on or near the coupling region		

73	..With additional optical element between facing fiber ends	103	..Having a central strength member
74	...Lens	104	..Particular fiber orientation (e.g., helically wound, etc.)
75	..With additional nonoptical structure	105	..Compartmentalized
76	.Optical fiber/optical fiber cable termination structure	106	..Plural unit type (plural complete cables within a single outside sheath)
77	..At or immediately surrounding an optical fiber end face	107	..With armoring
78	...Fiber end held in ferrule	108	...Prestressed
79	...Lens-shaped ferrule	109	.Loose tube type
80	...Adhesively fixed	110	..Compartmentalized
81	...Compressively fixed (chuck, collet, crimp, set screw, etc.)	111	..Particular fiber orientation
		112	..Plural unit type
		113	..With strength member
82	...Plural rods or balls structure	114	.Ribbon cable
		115	<b>OPTICAL FIBER BUNDLE</b>
83	...Groove-type holding structure	116	.Imaging (i.e., with coherent fiber structure and includes shaping, enhancing, and correcting)
84	...Tube-type holding structure		..For fiber scope (endoscope)
85	...Fiber/ferrule further processed (grinding, polishing, etc.)	117	...With manipulator
		118	..With lens or mirror
86	..Structure rearward of optical fiber end face to secure additional fiber or cable layers	119	.Fiber bundle plate
		120	.Transition between geometric shapes
		121	<b>HAVING NONLINEAR PROPERTY</b>
87	...Having at least one layer compressively fixed (e.g., crimp, tightening screws, etc.)	122	<b>OPTICAL FIBER WAVEGUIDE WITH CLADDING</b>
		123	.With graded index core or cladding
88	.Optical fiber to a nonfiber optical device connector	124	.Utilizing nonsolid core or cladding
89	..Plural fiber/device connections	125	.Utilizing multiple core or cladding
90	..Fiber adjustable relative to device	126	..Concentric
91	...Fiber permanently fixed after adjustment	127	...Where the second or further layer is a coating
92	..With housing	128	<b>PLANAR OPTICAL WAVEGUIDE</b>
93	...Including lens		.Thin film optical waveguide
94	...Sealed from environment	129	..Multilayer structure (mixture)
95	<b>WITH SPLICE (PERMANENT CONNECTION)</b>	130	..Channel waveguide
96	.Fusion splicing	131	<b>OPTICAL IMAGING TUNNEL</b>
97	.Alignment of fiber ends prior to splicing	132	<b>ACCESSORIES</b>
98	..End-to-end (butt) coupling	133	.Splice box and surplus fiber storage/trays/organizers/carriers
99	..Including splice joint reinforcement	134	.External retainer/clamp
100	<b>OPTICAL TRANSMISSION CABLE</b>	135	..Fiber holder (i.e., for single fiber or holding multiple single fibers together)
101	..With electrical conductor in the same cable	137	
102	..Tightly confined (i.e., fiber tightly held inside the outer sheath)		

- 138 .Bushing structure (e.g.,  
penetrator)
- 139 .Plug/termination device
- 140 .Attenuator
- 141 **HAVING PARTICULAR OPTICAL  
CHARACTERISTIC MODIFYING  
CHEMICAL COMPOSITION**
- 142 .Of waveguide core
- 143 ..Organic
- 144 .Of waveguide cladding
- 145 ..Organic
- 146 **NONCYLINDRICAL OR NONPLANAR  
SHAPED WAVEGUIDE**
- 147 **MISCELLANEOUS**

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