1		41	Directional coupler
1	TEMPORAL OPTICAL MODULATION	42	Directional coupler
0	WITHIN AN OPTICAL WAVEGUIDE	43	Tapered coupler
2	.Electro-optic	44	"T" coupler or duplex coupler
3	Phase modulation type	45	"Y" coupler
4	DIRECTIONAL OPTICAL MODULATION	46	-
	WITHIN AN OPTICAL WAVEGUIDE	-	Star coupler
5	.Light intensity dependent (e.g.,	47	Multiport coupler using
	nonlinear effects)	4.0	reflective surface
6	.Magneto-optic	48	Access couplers, power tappers,
7	.Acousto-optic	4.0	or power dividers
8	.Electro-optic	49	Fiber to thin film devices
9	Coupling between waveguides	50	Waveguide to waveguide
10	Diffraction grating (e.g.,	51	.Permanently fixed coupler
	Bragg)	52	.With alignment device
11	POLARIZATION WITHOUT MODULATION	53	WITH DISENGAGABLE MECHANICAL
12	OPTICAL WAVEGUIDE SENSOR		CONNECTOR
13	.Including physical deformation	54	.Structure surrounding optical
-	or movement of waveguide		fiber bundle-to-bundle
14	INTEGRATED OPTICAL CIRCUIT		**
15	WITH OPTICAL COUPLER	55	.Structure surrounding optical
16	.Switch (i.e., switching from one	F.6	fiber-to-fiber connection
	terminal to another, not	56	Multi-part (e.g., two pieces
	modulation)		screwed together or bayonet
17	Matrix switch (i.e., M X N,		latched)
	where M and N are 3 or more)	57	Magnetically actuated
18	Reflective-type switch	58	With additional structure at
19	Stationary waveguides with		or immediately surrounding
	movable opaque element		each optical fiber end face
20	Multiple pole multiple throw	59	Plural fiber-to-fiber
21	Double pole multiple throw		connections
22	Single pole multiple throw	60	Fiber end held in ferrule
22	(relay switch)	61	Lens-shaped ferrule
23	Single pole single throw	62	Compressively fixed (e.g.,
24	.Plural (e.g., data bus)		chuck, collet, crimp, set
25			screws, etc.)
	.Movable coupler	63	Plate-type holding structure
26	Slip ring		(e.g., jewel)
27	.Particular coupling function	64	Plural rods or balls
28	Coupling between modes in a		structure
	waveguide or fiber	65	Groove-type holding
29	Mode strippers		structure
30	Evanescent wave coupling	66	Tube-type holding structure
31	.Input/output coupler	67	Eccentric arrangement
32	Coupling light through a	68	Capillary tubes
	waveguide bend or loop	69	With additional structure
33	Lens	09	
34	Rod type		rearward of fiber joint to
35	Spherical	7.0	secure additional cable layers
36	Prism	70	With additional structure at or
37	Grating		immediately surrounding each
38	End fire	7 4	optical fiber end face
39	.Particular coupling structure	71	Plural fiber-to-fiber
40	Electrodes on or near the	7.6	connections
	coupling region	72	Fiber end held in ferrule

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

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	NONCYCLINDRICAL OR NONPLANAR
	SHAPED WAVEGUIDE
147	MISCELLANEOUS

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