U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1886 MARCH 3, 2009

PROJECT E-6764

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search Room
Abolished:	439	607-610	2833	RN0000A51
Established:	439	607.01-607.09, 607.1, 607.11-607.19, 607.2, 607.21-607.29, 607.3, 607.31-607.39, 607.4, 607.41-607.49, 607.5, 607.51-607.59	2833	RN0000A51

The following classes are also impacted by this order:

29, 102, 313, 337, 361, 365

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED PAGES
- C. CHANGES TO THE USPC-LOCARNO CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

PROJECT E-6764

Project Leader: James Cranson

Editor: Varona Stevens

Publication Specialist: Yvonne Smith

. 1	INTERRELATED CONNECTORS RELATIVELY	46	Pin having selection feature
	MOVABLE DURING USE	47	Panel member having planar surface
2 3	.And antivibration mounting .With means to apply lubricant or coolant		for supporting circuit and parallel surface for supporting second circuit
4	With storage means for flaccid conductor	48	Linear conductors of first surface; linear, normally disposed,
5	.Having liquid contact		conductors in second circuit
6	.Universal movement	49	.Including three or more contacts
7	Having "nonsolid" contact, e.g., fibrous or pelletized bed		adapted to be selectively interconnected
8	Parts comprisng ball and socket	50	Panel having planar contact array with
9	One part having flexible contact fingers	5 1	mating panel having mating planar contact array
10	.Compound movement, e.g., rotary + linear	51	Mounted for controlled movement with respect thereto
11	.Movement about axis	52	.Coupling part including repositionable contact
12	Including stacked plates used as conductor	53	.Coupling part with selectably oriented mating part
13	Rotary movement	54	.Test panel
14	Between cable and screw-type contact	55	PREFORMED PANEL CIRCUIT ARRANGEMENT,
15	shellPart comprising hand wheel, e.g.,		E.G., PCB, ICM, DIP, CHIP, WAFER, ETC.
	steering wheel	56	.Connection to lamp or electron tube
16	Part comprising vehicle wheel	57	Movable about its axis
17	Including ball or roller bearing used as conductor	58	Electron tube moved perpendicularly to panel circuit
18	Including annular contact	59	.With mating connector which receives
19	Rolling contact		panel circuit edge
20	Coaxial annular contacts	60	Contacts at different distances from
21	Concentric		lead panel circuit edge
22	Having axially facing contact	61	Receives plural panel circuit edges
23	surfaceHaving radially outwardly facing	62	Panel mounted connector which receives edge of panel circuit
5.4	contact surface	63	.For receiving coaxial connector
24 25	Three or more such contactsEngaged by resiliently biased	64	.With guide for directing panel circuit movement
23	contact	65	.With provision to conduct electricity
26	Laterally biased finger contact		from panel circuit to another panel
27	Having axially facing contact surface	66	circuitConductor is compressible and to be
28	Having radially outwardly facing	-	sandwiched between panel circuits
	contact surface	67	Flexible panel
29	Including resiliently biased contact	68	Micro panel circuit arrangement, e.g.,
30	Contact having resilient shank		ICM, DIP, chip, wafer, etc.
31	Hinge	69	Overlying second, coextensive micro
32	.Linear movement		panel circuit arrangement
33	Expansion joint	70	Dual inline package (DIP)
34	WITH VEHICLE STRUCTURE	71	Leadless
35	.Connection to towed vehicle	72	Contacts extending parallel with DIP at contact surface
36	.Connection to lamp	77	
37	WITH WEARING APPAREL	73	With external, contact enhancing clamp
38	WITH MAGNET	74	Overlying second preformed panel
39	.To urge mating connectors together	7-4	circuit, both adapted to be
40	.To urge connector to supporting surface		electrically connected
41	WITH VACUUM APPLYING MEANS. E.G., SUCTION CUP	75	Connected by transversely inserted pin
42	.To urge mating connectors or contacts together	76.1	.Within distinct housing spaced from panel circuit arrangement
43	WITH SELECTABLE CIRCUIT, E.G., PLUG BOARD		• • • • • • • • • • • • • • • • • • •
44	.Planar circuit overlying a second planar circuit, both adapted to be electrically connected		
45	Connected by transversely inserted pin		
	# Title Change		@ Indent Change

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	PREFORMED PANEL CIRCUIT ARRANGEMENT,	111	.Arcuate, bendable or pliant rail or
	E.G., PCB, ICM, DIP, CHIP, WAFER,	110	contact
	ETC.	112	Circular rail or contact
	.Within distinct housing spaced from panel circuit arrangement	113 114	.With access restricting coverBus duct
76.2	Automotive junction box	115	With means to join tandem rails or
70 - Z 77	.Flexible panel	112	tandem contacts
78	.Distinct contact secured to panel circuit	116	.With coupling movement-actuating means or retaining means in addition to contact of coupling part
79	Panel circuit adapted to move along panel plane relative to coupling part for insertion of male contact	117	Uninterrupted contact accessible by mating contact moving in a first,
80	Resilient contact or to receive resilient contact	118	then a lateral directionBayonet coupling part movable about
81	.Resilient contact or to receive resilient contact	119	axis .With mating part having mating
82	In or for use in panel circuit aperture		connector portion and another connector portion electrically connected thereto, e.g., adapter
83	Contact soldered to panel circuit	120	.Molding type; e.g., baseboard
84	Contact secured to panel circuit by deformation	121	FOR INTERFITTING WITH UNINTERRUPTED SUPPORT RAIL OR UNINTERRUPTED CONTACT
85	.Of layers of insulation	122	.Coupling part with actuating means
86	INCLUDING ELASTOMERIC OR NONMETALLIC CONDUCTIVE PORTION	122	urging contact surface to move with respect to rest of connector and
87	Rigid carbon conductive member		toward mating contact
88	.Inductive shielding or arc suppressing	123	CANDLE SIMULATION TYPE
89	meansSealing with coupled connector	124	.Adapter
90	Between parallel conductors	125	HAVING SPARK OR GLOW PLUG COVER
91	.Adapted to be sandwiched between	126	.Inductive shielding; e.g., radio
91	preformed panel circuit arrangements		disturbance
92	WITH CIRCUIT CONDUCTORS AND SAFETY	127	.With distinct securing means
	GROUNDING PROVISION	128	.Having removable closure
93	.And means to block access to power	129	MAGNETO POST TYPE
94	contact surface .Uninterrupted support rail or contact,	130	MULTICONTACT INTERNAL COMBUSTION ENGINE DISTRIBUTOR CAP OR MULTICONTACT MATING PART
	or for interfitting with uninterrupted support rail or contact	131	CONNECTOR MOVABLE BETWEEN ACCESSIBLE AND INACCESSIBLE POSITIONS
95	.Grounding to connector container or housing	132	.With fluid pressure operating or control means
96	Pliable conductor for making grounding connection of connector to	133	WITH UNAUTHORIZED CONNECTION PREVENTER, E.G., KEY OR COMBINATION LOCK
	container	134	.Prong cover
97 98	By means of connector mounting screw .Grounding to conductive sheath of cable	135	WITH CONTACT PREVENTER OR RETRACTABLE COVER PART
99	Portion of connector beneath	136	.Movably mounted
	conductive sheath	137	Moved by mating connector
100	.Grounding to pipe, rod or conduit	138	Moved about an axis
101	Direct grounding of coupling part member passing into aperture	139	Connector moved rectilinearly for engagement, preventer or cover moved about axis parallel to
102	<pre>Prong having locking provision, e.g., bayonet</pre>		direction of connector movement
103	Movable or removable ground prong	140	Connector moved rectilinearly for
104	Pivotable or rotatable about transverse axis		<pre>engagement, preventer or cover moved rectilinearly and parallel thereto</pre>
105	Adapter	141	Retractable sheath
106	Three-prong coupling part including	142	Movable about axis
107	ground prong, or receptacle	143	To misalign aperture with contact
107	Duplex receptacle	144	With connector retaining means in
108 109	Grounding of coupling part INTERMEDIATE MEMBER BETWEEN PRONG AND ENCOMPASSING PLANAR GROUND		addition to contact of connector
110	UNINTERRUPTED SUPPORT RAIL OR UNINTERRUPTED CONTACT		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	•		
	WITH CONTACT PREVENTER OR RETRACTABLE	184	Gas
	COVER PART	185	Gas accomodation by relatively moving
	.Movably mounted	100	parts
145	Movable to misalign aperture with contact	186 187	.Contact encasing chamber
146	Adapted to fit between contacts of first and second coupled connectors	188	Movable relative to contact HAVING CIRCUIT INTERRUPTING PROVISION EFFECTED BY MATING OR HAVING "DEAD"
1.47	(e.g., power measuring meter)	100	CONTACT ACTIVATED AFTER MATING
147	With connector retaining means in addition to contact of connector	189	WITH OR COMPRISING REMOVABLE CIRCUIT MODIFYING ARRANGEMENT
148 149	.Dummy connector .Prong cover	190	HAVING RETAINER OR PASSAGEWAY FOR FLUENT MATERIAL
150	Protector for electron tube pin	191	.Fluent material transmission line
151	COUPLING PART COMBINED WITH MEANS TO	192	Connector electrically joined to line
	ALLOW REPOSITIONING OF MATING PART	193	For use with line heater
	FOR ENGAGEMENT WITH DIFFERENT	194	Electrical connection within line
	CONTACTS ON MATING PART; E.G., FLASH	195	Connector/line assembly coupled to
152	CUBE WITH COUPLING SEPARATOR		mating connector/line assembly by
153	.Including retainer or joiner		movement about an axis less than 360 degrees
154	Destructible retainer	196	Liquid material to dissipate, remove,
155	Distinct from separator	٥٠٠	or block the flow of heat
156	Coaxial contacts, center one	197	.For urging contact toward or away from mating contact
	comprising separator, e.g., photo flash	198	.Gas retainer
157	Integral retainer and cam separator	199	Liquid retainer
158	.Means to utilize direct fluid action	200	Impregnated material
159	Nonconducting pusher	201	Coupling part having contact
160	Including handle for direct manual	202	encompassed by liquid storage
	urge to separate		chamber
161	HEAT RESPONSIVE CONTACT PRESSURE CONTROL	202	Contact comprising tapered post or
162	WITH RELATIVELY GUIDED MEMBERS AND	0.00	mating part (e.g., battery post)
	INTERMEDIATE PLIABLE CONDUCTOR	203	Crimped end terminal
163	Frangible pliable conductor; e.g.,	204	Encompassing wire
164	umbilical break-away .Relatively movable about axis	205	.Passageway allowing escape of fluent material during mating
165	Hinge	206	.Vent
166	CONVERTIBLE BY INTERNAL CHANGE TO	207	WITH CONDUIT OR DUCT
100	SELECTIVELY COOPERATE WITH A DIFFERENT CONTACT	208	Enclosed conductor electrically connected thereto
167	.Connector for power measuring meter	209	.Molding type (e.g., baseboard)
168	.Lamp or electron tube socket or base	210	.Means to join conduit, duct or
169	.Test probe		conductor sections
170	.Coupling part	211	.Including receptacle
171	Including repositionable contact	212	BUS DUCT
172	To nonuse or distinct use (e.g.,	213	.Means to join bus ducts
	male/female) position	214	COMPRISING COUPLING PART OF
173	To fit differently oriented contact		INDETERMINATE LENGTH LATERALLY OF
174	.Including repositionable contact	015	CONNECTION
175	To fit different size contact	215	<pre>.Included in prefabricated building panel (e.g., floor, ceiling, wall)</pre>
176	FEMALE COUPLING PART CONVERTIBLE TO MALE COUPLING PART BY ADDITION OF PRONG	216	.Molding type (e.g., baseboard)
177	COUPLING PART CONVERTIBLE TO DISTINCT	217	ALTERNATIVELY CONNECTED
	SHAPE BY ADDITION OF NONREMOVABLE	218	.Coupling part
	ELEMENT OR BY REMOVAL OF NONREUSABLE ELEMENT	219	Test probe
178	FLUENT CONDUCTING MATERIAL	220	Lamp or electron tube socket or base
		221	Contact comprising prong
179 180	Liquid CONTACT SEPARATION BY SNAP OR	222	Receptacle having distinct openings
100	QUICK-BREAK ACTION	223	for distinct prongsReceptacle for prong of first lateral
181	INCLUDING ARC SUPPRESSING OR EXTINGUISHING MEANS		dimension or for prong of second lateral dimension
182	.Lamp or electron tube socket		
183	.By arc suppressing or extinguishing environment		

environment

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

			imitell 2009
224	ALTERNATIVELY CONNECTED To receive contact from first direction	262	.Urging stacked contacts to move with respect to rest of coupling part
444	or from second axially distinct	263	.Contractile receptacle
	direction	264	For dual inline coupling part, e.g.,
225	CONTACT TAP BETWEEN NORMALLY ENGAGED		DIP
226	COUPLING PARTS COUPLING PART TO RECEIVE FLUORESCENT OR	265	.Expandable contact or spreadable contacts
	NEON LAMP	266	COUPLING PART HAVING HANDLE OR MEANS TO
227	.Having curved tubular envelope		MOVE CONTACT LATERALLY TO PERMIT
228	Plural lamps		UNCOUPLING
229	Circular lamp	267	.Having open slot for receiving panel circuit arrangement
230	.With sealing element or material for cooperation with coupled lamp	268	.Expandable, prong receiving socket
231	.With contact for starting switch	269.1	.To move contact with respect to similar
232	.With additional retaining or locking means for coupled connector and lamp	269.2	contactComprising laterally movable prong or
233	Removable		socket attached to flaccid conductor
234	.Adjustably mounted	270	.Movable latching prong or latch on
235	.Plural lamps	2,0	prong
236	Adapter	271	WITH SEALING ELEMENT OR MATERIAL FOR
237	Separately biased connector		COOPERATION WITH COUPLED CONNECTOR,
238	Pivotable connector		E.G., GASKET
239	With provision for transverse receipt of lamp contact	272	Sealing element having cross section that is neither circular nor
240 241	By rotation of lamp about axisContact comprising laterally	0.00	rectangular
241	resilient spring finger	273 274	Tapered cross-sectionCombined with distinct cable sheath
242	.With provision for axial receipt of lamp contact	274	sealing element or material
243	Axially biased contact	273	.Combined with distinct cable sheath sealing element or material
244	Coil spring with provision to utilize	276	.Including chamber for contact potting
	conductivity thereof	277	.With helically threaded coupling
245	COUPLING PART HAVING HELICALLY DISPOSED STRANDLIKE CONTACT		movement-actuating means or retaining means in addition to
246	SELF ALIGNING CONTACT		contact of coupling part
247	.Contact mounted in floating nonconductive holder	278	HAVING RESILIENT HOUSING FOR SEALING WITH COUPLED CONNECTOR
248	Connector including housing or panel to support holder	279	.Combined with distinct cable sheath sealing element or material
249	Receptacle having two directly opposed contact arms and open sides between	280	.Connector comprising lamp or electron tube socket or base
	arms	281	.Having interengageable sealing
250	To receive fuse	200	extension
251	To receive rigid bar type connector, e.g.,busbar	282	.Housing comprising resilient latching means
252	.Tubular socket	283	COUPLED CONNECTOR TO SEALINGLY FIT WITH
253	SCREW COUPLING PART ENGAGED OR DISENGAGED WITHOUT ROTARY MOTION	284	FIRST CONNECTOR ADAPTED TO COOPERATE WITH DUPLICATE
254	.Having radially movable thread means	285	CONNECTOR Sequentially connected contacts, e.g.,
255	. By axially moving wedge or cam	203	zipper type
256	Biased toward mating thread	286	Engaged by axial and pivotal movements
257 258	Socket COUPLING PART WITH LATCHING MEANS AND		(e.g., bayonet)
236	TETHER OR EXPLOSIVE TO UNLATCH FROM	287	.Engaged by lateral movement
	MATING PART	288	Pivotal
259	COUPLING PART WITH ACTUATING MEANS	289	.Butt coupling
	URGING CONTACT TO MOVE LATERALLY WITH RESPECT TO REST OF COUPLING PART AND TOWARD MATING PART	290	.Contact intermeshable with duplicate mating contact
260	.Having open slot for receiving preformed panel circuit arrangement or tape cable		
261	Pivotable means, one portion actuating contact surface, another portion retaining coupling part		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	ADADON OF COORDINATE VITOVA DVDA TOLINA	204	W.1
	ADAPTED TO COOPERATE WITH DUPLICATE CONNECTOR	324	.Male contact pin with blockable retaining means at tip, e.g., Modrey
	.Contact intermeshable with duplicate mating contact	325	Coupling part for receiving edge of planar board moving parallel to
291	Plural, electrically distinct contacts		plane
292	.With coupling movement retaining means	326	With angular mating
	in addition to contact of coupling	327	Retaining means exterior of slot
293	part Resilient	328	Fingerlike grasping means comprising portion of coupling part
294	With relatively rotatable	329	.For direct connection to a flexible
	movement-actuating or retaining		tape or printed circuit board
	ring	330	.For dual inline package (DIP)
295 296	Resiliently biased contact WITH COUPLING MOVEMENT-ACTUATING MEANS	331	Movement-actuating or retaining means comprises cover press
	OR RETAINING MEANS IN ADDITION TO CONTACT OF COUPLING PART	332	.Bayonet coupling part movable about its axis
297	.With guiding means for removable automobile radio or record player	333	With distinct means to secure movement-actuating or retaining
298	Including resilient latching retaining		means against movement
299	means .With coupling part retained in	334	Coupling part including appurtenant means for supporting other
	connection with mating part by		structure
300	presence of distinct coupling partAdapter	335	Comprising cylindrical shell having lug receiving slot
301	Retaining means requiring destruction	336	Lamp or electron tube socket
302	of element before separation Threaded coupling part	337	. Having axially extending bayonet contact
303	Requiring destruction of lamp envelope	338	.Including movement of coupling part about axis
304	.Including lock for retaining means	339	Threaded coupling part
204	(e.g., key or combination lock or requiring "special" tool)	340	With socket contact transversely engaging male threaded part
305	Magnetically operated latch	341	Pivotal movement
306	Threaded coupling part	342	.Including compound movement of coupling
307	Having freely rotatable component to prevent unthreading	343	partIncluding appurtenant means for
308	Retaining means entirely exterior of		supporting other structure
309	coupling part	344	.Having push-pull contacts spaced along only one planar side wall transverse
309	Retaining means comprising part of female coupling part		to longitudinal engagement axis
310	Retaining means with distinct	2.45	(e.g., telephone jack or plug)
	movement-actuating means to move coupling part axially	345 346	Retaining means
311	For bayonet (breech) type locking ring	346	Adapted to engage contact of mating part
312	.Coupling part with relatively pivotable	347	Laterally moving slide
312	concentric movement-actuating or	348	Laterally moving roller or ball
	retaining ring	349	Toroidal band urged radially of
313	Coupling part having appurtenant means for supporting other structure	0 40	connection or adapted to be compressed for retention, e.g.,
314	Retaining bayonet		O-ring
315	Having coupling indicating indicia or signal	350	Finger or stretchable sleeve resiliently urged laterally of
316	Bayonet lug on axially extending finger	351	connectionCoupling part having appurtenant
317	With means to move ring	332	means for supporting other
318	With means to prevent bayonet release		structure
319	With spring to longitudinally bias	352	With additional means to cause or prevent unlatching
200	movement-actuating or retaining ring	353	Finger inwardly biased during coupling or uncoupling
320	Threaded ring or ring adapted to	354	Rearwardly extending finger
221	engage threaded mating part	355	Plural independent coupling parts
321 322	With means to prevent unthreadingCoupling part having concentric	356	Coupling part comprising lamp or electron tube socket
323	contacts Adapter	357 358	Resilient fingerWith graspable portion
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[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

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	WITH COUPLING MOVEMENT-ACTUATING MEANS OR RETAINING MEANS IN ADDITION TO	392	With means to cut off excess end of conductor
	CONTACT OF COUPLING PART .Retaining means	393	Cutter piercing insulation parallel to conductor axis
359	Retaining means comprising helically	394	Coaxial cable
	threaded member	395	Having slot edge for cutting insulation
360 361	For lamp or electron tubeIncluding appurtenant means for	396	With additional diverse sharp cutting edge
	supporting other structure	397	Contact engages conductor in at
362 363	Parallel to connectionFor retaining tubular conductor in	337	least two locations spaced along conductor axis
364	electrical contactPassing centrally through coupling	398	Conductor engaging slot extends through bight of contact
365	part Adapter	399	With stress relieving means for
366	Retaining functioning electrical		conductor to terminal joint
200	component (e.g., tube, lamp, fuse, battery, etc.)	400	With distinct surface holding conductor in slot
367	Protective enclosure	401	Contact engages conductor at axial
368	Single means retaining plural distinct coupling parts and mating parts together		location and engages insulation at second axial location to relieve stress at conductor to terminal joint
369	For unsupported coupling part and unsupported mating part, (e.g., connecting extension cords)	402	Single conductive member having plural slots formed by three or
370	.Resiliently urging coupling part and mating part together		more fingers for connecting plural conductors
371	Pliable band, conductor sheath	403	From different margins of contact
	engaging means, or adhesive	404	Plural contacts, each formed by slot between pair of fingers
372	Rotatable retaining means, pivotable retaining means, or actuated	405	Longitudinally and laterally staggered contacts
	gripping retaining means	406	Contact is portion of elongated
373	Wall or outlet mounted		channel
374	WITH GUIDING MEANS FOR MATING OF COUPLING PART	407	With stress relieving means for conductor to terminal joint
375	.Lamp or electron tube socket or base	408	More than one conductor in same slot
376	.For constrained pivotal or plural movement coupling	409	Pivoting cutter, pivoting means to operate cutter, or pivoting means
377	.For guiding side of movable panel,		to move conductor against cutter
	e.g., circuit board	410	Pivoting cutter
378	Rodlike guide member extending in coupling direction or tubular passage for receiving rodlike guide member	411	Comprising screw, screw operated cutter, or screw means to move conductor against cutter
379	With plural contacts circularly	412	Screw means to move conductor
373	disposed about guide opening or	413	against cutterSingle element cutting and
•	rodlike member, e.g., electron tube base	414	connecting plural conductorsLamp or electron tube socket or
380	Tubular passage receives contact	414	base
381	Bare contact	415	Screw threads pierce insulation
382	INCLUDING VIBRATION CUSHIONING OR ABSORBING MEANS	416	Piercing means comprising end of screw
383	.Adapted to fit between opposing faces of mated connectors	417	Rectilinearly moving operator
384		418	Contact member cutting to contact
	For supporting connector		first conductor and contacting
385	By gripping mating connector		second conductor
386	WITH COMMONING MEANS FOR RETURN GROUND	419	Lamp or electron tube socket or base
387	CONTACT COMPRISING CUTTER (SEVERING, PIERCING, ABRADING, SCRAPING, BREAKING OR TEARING)	420 421	Flexibly tensioned strap Crimped
388	.Adapted to engage tapered post (e.g., storage battery terminal)		
389	.Insulation cutter		
390	Adapted to engage liquid, granular or metallic wool conductor		
391	Conductor sheath piercing		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	CONTACT COMPRISING CUTTER (SEVERING, PIERCING, ABRADING, SCRAPING,	460	.Conductor gripped by or entirely within connector housing
	BREAKING OR TEARING) .Insulation cutter	461	Including longitudinally threaded connector part to effect gripping
	Conductor sheath piercingCrimped	462	of conductorDistinct clamp actuated by threaded
422	For use with tape cable		connector part
423	Cutting by peripheral end of sheath	463	Eccentric gripping means
	encircling crimped contact	464	.By pliant, conductor encircling strap
424	Cutting by stamped out tooth of sheath encircling crimped contact	465	Longitudinally divided connector housing grips conductor
425	Nail like cutter	466	With additional contacts comprising
426	Passing through insulation to make contact		coupling part mating along axis normal to conductor
427	.Axially penetrating the elongated	467	Hinged connector housing parts
	conductor	468	With additional contacts comprising coupling part mating along axis
428	Comprising screw or screw operated means		normal to conductor
429	Screw threads engage conductor	469	Transverse conductor gripping screw,
430	Contact permanently secured to a		or with means to transversely move conductor gripping means
	conductor, e.g., crimped, soldered, etc.	470	.Conductor gripped outside connector housing by distinct clamp
431	.Comprising screw, screw operated	471	By pliant conductor encircling strap
	cutter, or screw means to move conductor against cutter	472	With means to transversely move conductor gripping means
432	Screw operated pivoted cutter	473	With additional contacts comprising
433	Annular cutter	1.2	coupling part mating along axis
434	.Annular cutter		normal to conductor
435	.U-shaped clamp	474	INCLUDING OVERSTRESS PREVENTING MEANS
436	.Resiliently biased	475	.Frangible element
437	Finger	476.1	INCLUDING HANDLE OR DISTINCT
438	Resilient finger		MANIPULATING MEANS
439 440	Plural fingersSpaced along longitudinal axis of	477	.For attachment of connector to overhead conductor
441	engagementAdapted to grip upon withdrawal of	478	With conductor inside handle or manipulating means
442	mating part .Crimped	479	.Including handle operated screw to effect gripping of overhead
443	.Having slot edge for cutting		conductor
444	Piercing into support structure	480	.Distinct manipulating means; e.g., hot
445	WITH OR HAVING FLEXIBLE GUARD OR SUPPORT FOR CABLE OR CONDUCTOR	481	stick .Randomly manipulated implement
446	.Pivotal	482	Test probe
		483	.Coupling part
447	Resilient	484	Including bale or loop
448	Coil spring concentric with cable or conductor	485	WITH PROVISION TO DISSIPATE, REMOVE, OR
449	WITH STRESS RELIEVING MEANS FOR CONDUCTOR TO TERMINAL JOINT	486	BLOCK THE FLOW OF HEAT
450	•		.Tube clamp
450	.Drop cord attaching means, e.g., block or rosette	487	.Distinct heat sink
451	.Including provision to attach tether	488	WITH INDICATING OR IDENTIFYING PROVISION
452	.Including provision to attach to stress	489	.Connection indicating provision
432	bearing portion of conductor	490	Indicator light
453	Enlargement engaging means	491	.Distinct indicia bearing member
454	Including longitudinally threaded	492	INCLUDING OR FOR USE WITH TAPE CABLE
4 54	connector part to effect gripping of enlargement	493	For connection to rigid preformed panel circuit arrangement, e.g., PCB
455	Distinct cable attached enlargement	494	.Single cable end into dual rows of contacts
15.6	means	495	.With mating connection region formed by
456	.Curved conductor path		bared cable
457	Means comprising notched or apertured body		
458	Plate-like body		
459	Conductor clamping and shaping		$\mathcal{L}_{\mathcal{L}}$

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	INCLUDING OR FOR USE WITH TAPE CABLE .With mating connection region formed by	530	And including electrical contact for load bearing
496	bared cableBared cable wrapped into U-shape about	531	.Flexible suspension means, e.g., chain or strand
	insertion projection	532	.Interfitting with channel or double
497	.With shield, ground conductor or ground commoning means	533	rail .Also supporting mating part
498	.Plural cables to multicontact connector or single cable branching to plural	534	.Universally or pivotally adjustable supporting elements
100	connectors	535	.Outlet box
499	.Including connector housing surrounding cable	536	Supporting means comprising face plate or closure member for outlet box
500	ENERGY CELL SUBSTITUTION DEVICE	537	For ceiling box
	INCLUDING PLURAL CONTACTS (E.G.,	538	.Outlet receptacle mounting flange
	JUMPER) OR WITH SUPPORT MEANS FOR ENERGY CELL	539	Yoke
F.0.1		540.1	.Supporting plural, independent coupling
501 502	WITH STORAGE MEANS FOR FLACCID CONDUCTOR WITH FLACCID CONDUCTOR AND WITH		parts
302	ADDITIONAL CONNECTOR SPACED	541	Plural lamp or electron tube sockets
	THEREALONG	541.5	Stacked right-angle connector for use
503	.Adapted to interconnect vehicles		on printed circuit board (i.e.,
504	.Adapted to connect to a battery		PCB)
505	.And with third connector spaced	542	.Elongated member supporting connector
303	therealong		at its extremity or member for interfitting with such an elongated
506	.Connector comprising pivoted spring		member
	biased clamp	543	Threaded shaft or tube
507	JUMPER (OR SHORT CIRCUITING COUPLING	544	.Coupling part or mating part extending
	PART)		into panel opening
508	.Adapted to be used with power measuring meter	545	With securing by movement of coupling part in plane of panel
509	.Coupling part comprising short circuiting cover or manipulatable	546	Movement about connective axis; e.g., bayonet
540	supporting means	547	To preformed panel circuit
510	.To bridge post-type contacts		arrangement
511	.Including plural prongs	548	With sealing to panel
512	Including plural female contacts	549	Resilient gripping of panel
513 514	.Having spring biased contact .Parallel or supplemental nonshielded	550	With opening encircling retaining collar
	path	551	Concentrically screw threaded collar
515	PARALLEL OR SUPPLEMENTAL NONSHIELDED PATH	552	Including resilient securing
E1.6		553	By resilient member on panel
516	WITH PROVISION TO ISOLATE CIRCUITRY BY SEVERANCE OF BRIDGING ELEMENT	554	Panel circuit arrangement
517	POWER MEASURING METER COUPLING PART	555	With means to deform or lock
518	COUPLING PART CONVERTIBLE TO DIFFERENT		resilient means
310	FORMAT BY SUBSTITUTION OF DIFFERENT	556.	With sealing to panel
	CONTACT	557	Laterally flexed finger on coupling
519	WITH PROVISION TO RESTRICT ENVIRONMENT		part
	EFFECTS	558	Including lamp or electron tube
520	.Sacrificial material	550	socket
521	.Including contact cover or case	559	With sealing to panel
522	Connector comprising or mating with tapered post, e.g., storage battery	560	Coupling part secured to panel by stressing beyond elastic limit
523	terminalHaving elastic or heat shrunk cable	561	By stressing panel beyond elastic limit
	grip	562	Coupling part including panel engaging shoulder
524	CORROSION RESISTANT CONDUCTING MATERIAL OTHER THAN LEAD	563	Comprising detachable or adjustable flange
525	FOR DUAL INLINE PACKAGE (DIP)	564	Directly attached to panel by
526	ALIGNING MEANS FOR DUAL INLINE PACKAGE (DIP)		elongated fastener in tension (e.g., rivet, bolt or screw)
527	WITH SUPPORTING MEANS FOR COUPLING PART		(a.a.) Trace, Note or Dorem!
528	Nonuse covering means, e.g., connector storage means		
529	.And including appurtenant means for supporting other structure		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	CATALOG CANDO DE LA COMPANA DE	507	n
	WITH SUPPORTING MEANS FOR COUPLING PART Coupling part or mating part extending	597	.Having plural, laterally spaced, prongs or prong sockets
	into panel opening	598	Coupling part including shell and
	Coupling part including panel engaging shoulder		assembly of contact and contact supporting insulator
565	With opposed, cooperating panel	599	And multiple insulating components
	engaging member	600	Having laterally spaced prongs
566	For permanent attachment to panel,	601	Folded prongs
567	e.g., by welding .Haying resilient means engaging panel	602	Lamp or electron tube socket or base
	opening	603	Retaining contact within distinct coupling part housing
568	.Coupling part supported by randomly manipulated appliance (e.g., electric iron)	604	WITH EXTERNAL CONDUCTOR OR CABLE EMBEDDED IN INSULATIVE SEALING MATERIAL
569	.Flange on coupling part	605	.Lamp or electron tube socket or base
570	Plural detachable flanges	606	.Molded connector body
571	.Comprising or for use with supporting	* 607.01	ELECTROMAGNETIC OR ELECTROSTATIC SHIELD
572	<pre>panelConductor extending into panel opening</pre>	* 607.02	Shield formed of conductive and dielectric materials in dielectric
573	Directly attached to panel by elongated fastener in tension		<pre>(e.g., plastic coated with metal or filled with metal particles)</pre>
	(e.g., rivet, bolt or screw)	* 607.03	Conductive coating surround mutually
574	.Means to clamp		isolated contacts
575	Resilient clamp	* 607.04	Shield with cutout to receive shield of mating connector to reduce field
576	.To be engaged by suspension means		effects
577	COMBINED WITH NONELECTRICAL FEATURE INCLUDING OR FOR USE WITH COAXIAL CABLE	* 607.05	.Shielding individually surrounding or
578		0000	interposed between mutually
579	.Having means for interconnecting outer conductors of three or more cables		<pre>insulated contacts (i.e., "single" connector with divider)</pre>
580	.For cable having three or more coaxial conductors	* 607.06	Planar shields separating multiple (three or more) thin connector
581	.Adapted to join cable conductors to different type conductors (e.g., to		modules
	PCB conductors)	* 607.07	For mounting on PCB
582	.Adapted to secure cables perpendicular to one another or a cable perpendicular to coupling axis	* 607.08	Shield with divider wall separating contacts (includes wall formed by ground contacts)
583	.Having screw-threaded or screw-thread	* 607.09	For mounting on PCB
303	operated cable grip	* 607.1	Three or more rows and columns of
584	With radially compressible cable grip		contact spaces, formed by shield
585	.Having crimpable metallic cable	+ 607 11	walls
	conductor grip	* 607.11 * 607.12	Right angle connection on PCB
586	COUPLING PART INCLUDING FLEXING INSULATION		Planar shield with openings for individual contacts
587	.Sealing	* 607.13	Shield housing mounted on PCB
588	Resilient, coupling part encircling jacket	* 607.14	Socket for receiving edge type connector or integrated circuit
589	Within rigid coupling part shell	* 607.15	With conductive housing part separating wires
590	.Storage strip for a plurality of coupling parts	* 607.16	Vacuum tube socket
591	.Coupling parts .Coupling part for use between duplicate	* 607.17	.Resilient conductive means providing
231	coupling parts (e.g., sandwiched between printed circuit boards)		additional electrical path between mating outer shield members (e.g.,
592	.Insulation distorted by or to effect	+ 600 10	spring or gasket)
F.0.2	coupling action	* 607.18	<pre>Conductive gasket (i.e., flat gasket or 0-ring)</pre>
593	Receptacle adapted to bias contact and cause indirect gripping of mating contact	* 607.19	Conductive spring on exterior of corresponding shield
594	Resiliently interlocking coupling part	* 607.2	Shield for electro-optical transceiver
	with adjacent modular coupling part	* 607.21	For plural transceiver housings
595	.Hinged or flexed detent on insulation engaging to secure contact within coupling part housing		
596	.Coupling part housing hinged for coupling part assembly		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

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* 607.22	ELECTROMAGNETIC OR ELECTROSTATIC SHIELD .IC card type	* 607.58	.Insulative cover or overmold surrounds shield
* 607.23	.Shield encloses plural connectors	* 607.59	.Vacuum tube socket
	(i.e., modular or stacked)	611	WITH VITREOUS-TYPE ENVELOPE (E.G., BASE OF LAMP OR VACUUM TUBE)
* 607.24	Shield surrounds diverse type connectors (i.e., surrounds optical and electrical connectors)	612	.Connector or contact secured to each
* 607.25	Shield with plural ports for separate	613	end of double-ended envelope .Connector of the type having only
* 607.26	mating connectorsRJ type sockets		concentric annular contacts or annular contact disposed
* 607.27	Outer shield surrounds inner shield (i.e., single connector with one		concentrically about an axial contact
	hollow shield about another hollow shield)	614	Having three or more contacts (e.g., for three-way lamp)
* 607.28	.With connection of shield to metal	615	Having screw-thread-coupling contact
	grounding panel	616	.Having bayonet-coupling contact
* 607.29	Expansion card bracket (usually L—shaped bracket for computer	617	.Plug having spaced, longitudinally engaging, prong-like contacts
	cards)	618	Having three or more circularly
* 607.3	With conductive gasket (e.g., flat gasket or 0-ring)		arranged contacts (e.g., base of vacuum tube)
* 607.31	.For receiving PCB edge or IC card as mating member	619	Having only two duplicate contacts. arranged bilaterally symmetric about
* 607.32	Right angle connector on PCB		longitudinal axis of engagement
* 607.33	For receiving IC card	620.01	WITH CIRCUIT COMPONENT OR COMPRISING
* 607.34	.With connection of shield to connector contact		CONNECTOR WHICH FULLY ENCLOSES CIRCUIT COMPONENT
* 607.35	.Shield mounted on printed circuit board	620.02	Lamp socket or lamp base
* 607.36	Shield surface-mounted to PCB (i.e.,	620.03	.Coaxial connector
	without penetration of the PCB)	620.04	.Termination circuit (usually with
* 607.37	. With separate conductive member fixing	620.05	resistors)
	<pre>shield to PCB (e.g., resilient or threaded latch)</pre>	620.05	.Ferrite (i.e., magnetic core)
* 607.38	For RJ socket	020.00	For connector mounted on printed circuit board (PCB)
* 607.38	Vertically mounted wafer edge	620.07	Having significant filtering
. 001.33	connector	620.08	.Non-fuse excessive current preventer
* 607.4	Parallel connector on PCB	020.00	(e.g., varistor, PTC material or
* 607.41	.Having means for electrically		circuit breaker, etc.)
	connecting shield of shielded cable to connector shield member	620.09	.Capacitive filter (i.e., filter, capacitor, diode adjacent each
* 607.42	For armored cable		contact)
* 607.43	For RJ plug	620.1	With housing shield or metal shell
* 607.44	With added means connecting cable	620.11	Registered jack (RJ) plug or socket
	shield to external structure (i.e., to panel or to terminal block	620.12	Right-angle connector on printed circuit board (PCB)
	casing)	620.13	Having component (e.g., filter,
* 607.45	For cable with two outer shields		capacitor, or diode, etc.)
* 607.46	Connector with internal PCB (i.e., shield soldered to PCB in housing)	600.14	integral with or fitted into contact
* 607.47	Longitudinally divided shield parts	620.14	Planar filter with openings for contacts
* 607.48	At least one shield part crimpable to cable shield	620.15	.Connector (e.g., plug, socket, etc.) on
* 607.49	For flat cable		printed circuit board (PCB) includes
* 607.5	Connected to cable shield by crimping	620.16	or covers additional componentRight-angle connector
* 607.51	Insulative cover surrounding shield	620.17	Registered jack (RJ) plug or socket
	(includes overmolding)	620.17	Housing having plural registered
* 607.52	Connected by portion of shield fitting beneath cable shield or by	620.19	jack (RJ) plugs or socketsWith shield surrounding housing
	penetration of cable	620.19	with shield suffounding housingSocket for dual inline package (DIP)
* 607.53	Shield extends over mating face (i.e., shield at mating face extends between contact openings)	020.2	or printed circuit board (PCB)
* 607.54	.Shield formed by folding		
* 607.55	.Multi-part shield body		
* 607.56	Longitudinally divided shield parts		
* 607.57	With insulative cover or overmolding		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	NATION GENERALITY GOVERNMENT OF COMPRESSIVE	636	Contracts within alex encous encounts
	WITH CIRCUIT COMPONENT OR COMPRISING CONNECTOR WHICH FULLY ENCLOSES	636	Contacts within slot engage opposite sides of printed circuit board
620.21	CIRCUIT COMPONENT .Connector (e.g., power plug, registered	637	Separate mutually insulated contacts on opposite
	<pre>jack (RJ) plug, adapter, outlet box, etc.) with internal component</pre>	638	longitudinal sides of slotTwo or more plural-contact coupling parts combined in one integral unit
620.22	(except fuse)Component on printed circuit board (PCB) in connection housing	639	Unit includes three or more diverse types of coupling parts
COO 22		640	One coupling part of unit
620.23 620.24	<pre>Registered jack (RJ) plug or socket .Small component on printed circuit board (PCB) (e.g., 2- or 3-lead</pre>	040	repositionable relative to another thereof
	component, etc.) capacitor, resistor, or piezoelectric	641	Unit includes coupling part having screw-thread-coupling contact
620.25	Socket or printed circuit board (PCB) for the small component	642	Plug having surrounding screw-thread-coupling contact
620.26	.With or for fuse	643	Combined with plural receptacles
620.27	Box with plural fuses (automobile power distribution box)		with each having internal screw-thread coupling contact
620.28	Cylindrical fuse in cylindrical holder	644	Combined with receptacle having
620.29	Comprising coupling part housing for enclosing fuse (includes outlet box	645	<pre>internal bayonet-coupling contactCombined with push-pull-coupling</pre>
620.3	or faceplate)Fuse enclosed in plug of type having	040	receptacle
32313	two or three prongs (i.e.,	646	Wherein the receptacle is adapted
	<pre>standard-type plug used at wall outlets)</pre>	5.45	to receive plug having spaced prong-like contacts
620.31	Plug is an adapter (includes connector for second plug	647	Receptacle having internal screw-thread-coupling contact
620.32	Right-angle plug (wiring at right angle to plug prongs)		<pre>combined with plug having spaced, longitudinally engaging, prong-like contacts</pre>
620.33	Fuse with flat coplanar blades or receiver for such fuse	648	Plural receptacles with each having screw-thread-coupling contact
620.34	Fuse removably held in holder for plug-in step	649	Unit includes plural receptacles with
623	CABLE COMPOSED OF MUTUALLY INSULATED		each having bayonet-coupling contact
	CONDUCTORS HAVING SEPARATELY CARRIED CONDUCTOR END TERMINALS	650	Unit includes receptable for receiving plug having spaced,
624	PLURAL CONTACTS DISPOSED INTERMEDIATE ENDS OF CABLE HAVING SHEATH ENCLOSING		longitudinally engaging, prong-like contacts
	MUTUALLY INSULATED CONDUCTORS (E.G.,	651	Combined with plug having spaced,
625	SEISMIC TYPE CABLE) WITH INSULATION OTHER THAN CONDUCTOR SHEATH		longitudinally engaging, prong-like contacts
626	.Plural-contact coupling part	652	Wherein the plug is combined with a
627	For direct simultaneous contact with		plurality of the receptacles
	plural battery or cell terminals		adapted to receive spaced-prong plug
628	. Single-contact connector for interposition between two	653	Combined with diverse type of coupling part
	<pre>plural-contact coupling parts (e.g., adaptor)</pre>	654	Having receptacle at each of parallel opposed surfaces or
629	For coupling to edge of printed		sides
	circuit board or to coupling part secured to such edge	655	Unit includes plug having spaced,
630	Having elongated slot for receiving		<pre>longitudinally engaging, prong-like contacts</pre>
	edge of printed circuit board	656	With common means securing plural
631	Plural slots for electrically	050	conductors to separate contacts
	interconnecting plural printed circuit boards	657	Screw-thread operated
632	Providing direct contact between	658	Having separate through-passageways
0.72	contacts of printed circuit board and different type conductors		for enabling securement of intermediate portion of conductors
633	Having polarizing means	659	theretoCoupling part comprises receptacle
634	Having multipart insulating body	600	having internal
635	Relative movement of insulating parts alters contact pressure		screw-thread-coupling contact

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	WITH INSULATION OTHER THAN CONDUCTOR SHEATH	685	Having only three prong-receiving recesses arranged to define
	.Plural-contact coupling part		apices of a triangle
660	Plural-contact coupling part comprises receptacle or plug	686	Having multipart insulating body or casing
661	Having screw-thread-coupling contact	687	Divided parallel to longitudinal
662	Screw threads formed on cylindrical or annular contact		<pre>engagement axis (e.g., formed of two casing halves)</pre>
663	Screw-threaded center-contact type	688	Formed of superposed planar sheets or plates of insulation
664	Plug having screw-thread-coupling contact and also having	689	Planar insulating cover overlying insulating body or casing
CCE	resilient or spring-biased center contact	690	Insulating parts secured together by screw-threaded means
665	Having mutilated, irregular, interrupted, or discontinuous contact thread	691	Having additional resilient member cooperating with contact to
666	Receptacle having internal screw-thread-coupling contact		increase grip on contact of mating plug
667	And also having resilient or spring-biased center contact	692	Plug having spaced, longitudinally engaging, prong-like contacts
668	Having only push-pull-engaging contacts spaced along longitudinal axis of engagement (e.g.,	693	With insulative covering about part of protruding portion of each contact
669	<pre>jack-type receptacle or plug)Plug having cylindrical or annular contacts of substantially the</pre>	694	Having wire conductor receiving passageway extending perpendicular to longitudinal
	same diameter (e.g., jack-type	COF	axes of contacts
	plug)	695	Having multipart insulating body
670	Having coupling contact requiring successive relative motions in different directions to complete	696	<pre>Divided parallel to longitudinal engagement axis (e.g., formed of two casing halves)</pre>
	the coupling	697	Having means other than
671 672	Having bayonet-coupling contactBayonet-coupling contact comprises		screw-threaded means for securing wire-type conductor to contact
	cylindrically-shaped ring or shell	698	Receptacle for transversely receiving elongated fuselike component having contact at each end thereof
673	Having plural bayonet-coupling contacts	699.1	Having only two duplicate contacts arranged bilaterally symmetric
674	Polarized		about longitudinal axis of
675	Having annular, push-pull-engaging contact concentrically disposed		engagement
	about longitudinal axis of	699.2	Lamp-receiving socket
	engagement	700	Having spring-biased, plunger-type
676	Having push-pull-engaging contacts spaced along planar side wall transverse to longitudinal		contact movable along line parallel to longitudinal axis of engagement
	engagement axis (e.g., telephone jack or plug)	701	Having modular or multipart insulating body
677	Polarized	702	.Insulating body comprising or for use
678	By asymmetric disposition or asymmetric shape of duplicate		with cylindrical cap and shell type lamp receptacle casing
679	contactsBy having or receiving contacts of	703	Insulating lining or contact support within separable, metallic cap and
	similar type which are unequal in size or shape	704	shell casingInsulating lining or contact support
680	By key or guideway	705	within metallic cap casing
681	User adjustable key or guideway	705	Insulating lining or contact support within metallic shell casing
682	Receptacle for receiving plug having spaced, longitudinally engaging,	706	Insulating lining for interior of
683	prong-like contactsAdapted to receive base connector of	707	metallic cap or shell casingSeparable insulating cap and shell casing
	electron tube	708	.Insulating body providing direct
684	Receptacle body formed of thin, superposed plates or discs of insulation		contact or engagement of duplicate terminals or conductors
		709	.Insulating body having plural mutually insulated terminals or contacts (e.g., terminal block)
	·		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	WITH INSULATION OTHER THAN CONDUCTOR SHEATH	736	Secured by heat-molding or cold-deforming insulation or by
	.Insulating body having plural mutually insulated terminals or contacts (e.g., terminal block)	737	casting, welding, or cementingSecured to insulation by screw-threaded means
710	Duplicate insulating blocks or boards interconnected by frangible or severable part	738	Insulating tube, sleeve, or cap concentrically surrounding part of connector
711	With common operator for simultaneously securing separate contacts thereof to separate	739	Including resilient or spring-biased part for securing wire-conductor or mating connector thereto
712	external contacts or conductorsModular or multipart insulating body	740	Secured to insulation by bayonet engagement
713	Relatively movable insulating body parts	741	Secured by permanently bending, deforming, or crimping metallic part
714	Formed of three or more thin, flat, superposed layers, plates, or sheets of insulation	742	Having separate bendable or deformable securing part (e.g.,
715	Modular insulating block or board	743	rivet)Resilient or spring-biased socket
716	With support track for receiving plural insulating blocks or		contact or connector
717	boardsHaving integral means to interlock or interfit with a duplicate	744	Secured by resiliently biased part latching behind shoulder or into recess
718	insulating block or boardHaving protective cover formed from insulating material	745	Separate latching part secured to contact prior to engagement with insulation
719	With conductor fanning means	746	Latching part unitary with metallic
720	Terminals or contacts secured by permanently bending or deforming metallic part onto insulation	747	connector or contactCoupling part type contact inserted into insulation from coupling end
721	Having three or more spaced, electrically interconnected, duplicate terminals or contacts	748	Resilient socket contact for surrounding or engaging opposed surfaces of mating plug contact
722	Terminals or contacts embedded in insulating body	749	Adapted to have secured wire conductor extending transverse to longitudinal coupling axis
723	Insulating body with spaced, electrically interconnected, duplicate terminals or contacts	750	.Insulating tube, sleeve, or cap concentrically surrounding part of
724	Modular or multipart insulating body	751	connectorSecured by part resiliently gripping
725	Having movable insulated part for securing conductor or mating	752	insulation
726	connector theretoClamp-type connector for storage		Secured by superposition of insulating body parts
727	battery postScrew-thread-operated securing part	752.5	With guiding means for inserted contact
728	With spring operating on conductive clamp portion of securing part	753	CYLINDRICAL METALLIC CAP AND SHELL TYPE LAMP RECEPTACLE CASING
729	Spring-operated or resilient securing part	754	METALLIC CLAMP-TYPE CONNECTOR FOR STORAGE BATTERY TERMINAL
730	Terminal connector having insulating tube or sleeve adapted to be crimped or heat-shrunk onto wire conductor	755	<pre>.For threaded-receptacle type terminal flush with battery wall (e.g., for side terminal type battery)</pre>
731	Insulating body divided parallel to longitudinal axis of engagement	756	.Common securing means for post and conductor
	(e.g., formed of two casing halves)	757	.With clamp-to-post joint separator
732	.Interfitting or abutting insulating bodies carried by separate mating connectors	758 759	Clamp secured to and separated from post by same screw-threaded member .Spring-actuated or resilient clamp
733.1	.Metallic connector or contact secured to insulation	760	.With reinforcing insert
734	Annular or center contact secured to lamp-type insulating receptacle or base		
735	Screw-threaded contact having mutilated, irregular, interrupted, or discontinuous screw thread		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	TOP	706	The literature was being a boundary
	METALLIC CLAMP-TYPE CONNECTOR FOR STORAGE BATTERY TERMINAL	796	.Duplicate receiving means having independently operated securing
761	.Deformable C- or U-clamp		means for joining plural conductors
762	Screw-thread operated	797	Screw-thread operated securing means
763	With plural conductor terminals		for each receiving means
764	With means for removably securing	798	For joining three or more conductors
, 0	conductor thereto	799	.Circumferentially tensioned flexible strap or band
765	.Screw-thread operated	800	Tensioning screw intersects
766	Screw or nut coaxial with post	000	longitudinal axis of encircled
767	Post between and transverse of plural		conductor
	screws	801	.Screw-thread operated securing part
768	Eye bolt type	802	Screw-threaded lamp-shell type contact
769	Clamping lever		having resilient or spring biased
770	Clamping cam or wedge		securing part
771	<pre>Screw axis intersects post axis (e.g.,</pre>	803	C-clamp type
770	·	804	Single conductor between and
772 773	.Clamping lever, cam, or wedgeRotary or swinging cam		transverse of plural screws (e.g., U-bolt)
774	Rotary of swinging cam Sliding wedge	805	Nut, bolt, or screw coaxial with
774 775	METALLIC CONNECTOR OR CONTACT HAVING	603	elongated conductor
775	MOVABLE OR RESILIENT SECURING PART	806	Clamping lever
776	Stirrup type for simultaneously	807	With screw-thread operated cam or
.,,	securing two spaced-apart locations	00,	wedge
	along the length of a conductor	808	With strand coiling or loop forming
	thereto		means
777	Adjustable angular joint between	809	With means confining strand or wire
	separate connectors or conductor		loop about screw
220	securing means	810	Screw axis intersects conductor axis
778	Externally threaded, bifurcated bolt. for joining conductors having like		(e.g., set screw)
	cross-sectional shape	811	With movable clamp jaw between conductor and screw or nut (e.g.,
779	With nut retainer		slidable follower)
780	With slidable conductive element	812	Clamp jaw movably secured to screw
	between conductors		or nut
781	Bolt or screw between and transverse of	813	Captive screw or nut
	parallel conductors	814	Set screw type
782	With means to maintain assembly of clamp part and bolt or screw	815	Screw or nut moves resilient or
783	.Cam or wedge between conductors		resiliently biased securing part
784	.Screw-threaded securing means coaxial	816	.Spring actuated or resilient securing
704	with elongated conductors joined in	017	part
	axially aligned relationship	817	Compression spring axis transverse of and intersecting conductor axis
785	.Parallel elongated conductors between	818	Spring biases detent member to form
	and transverse of plural screws	020	snap-latch type securing part
	(e.g., U-bolt)	819	Separate spring means moves rigid
786	Resilient or spring-operated securing		nonresilent clamping part into
707	means joining plural conductorsConductors secured in duplicate		securing condition
787	receiving means	820	Spring biases slidable wedge-shaped
788	With helical spring	001	or wedge-operated jaw
789	.Hinged jaw type having alignable	821	Socket connector having three or more annularly arranged duplicate grip
	conductor receiving bores		elements
790	.Single operator for securing and	822	Hinged clamping part (i.e., clamping
	joining plural conductors		lever)
791	Single screw-threaded operator	823	Socket or pin connector having small
792	Conductors secured in direct contact		radially biased clamping or
	with one another		detenting element
793	Screw axis intersects axes of	824	Spring-biased butt contact
	conductors joined parallel to one another		
794	Conductors secured in duplicate		
/ 	receiving means		
795	Screw-threaded operator		
	circumferentially tensions		
	flexible strap or band		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	METALLIC CONNECTOR OR CONTACT HAVING	847	Spring means mounted on exterior of
	MOVABLE OR RESILIENT SECURING PART .Spring actuated or resilient securing	01/	and extends into rigid socket body
	part part	848	Having latching detent or means
825	Plug having means for resiliently engaging opposed interior surfaces		operated by mating contact to lock or manipulate resilient part
	of mating socket connector (e.g., banana plug)	849	Adapted to receive thin blade contact (e.g., spade receiving)
826	Also having means for resiliently engaging exterior surfaces of the socket connector	850	Resilient channel-like socket for receiving thin blade contact (e.g., spade receiving)
827	Having separate resilent means extending externally around or outwardly through rigid plug body	851	Socket comprises tubular body having resilient means for gripping inserted elongated contact (includes split or slotted tube)
828 829	Having resilient clamping finger crossing plane of opposed clamping member while in clamping conditionHand-grip type	852	Having resilient cantilevered clamping finger located within tubular body
830	For receiving end contact of elongated	853	With means for mounting to flat
	fuselike component inserted transverse to longitudinal axis of	854	panelTubular socket perpendicular to
831	component (e.g., fuse clip)With contact rejection feature or	•	<pre>wire-securing barrel (e.g., right-angle connector)</pre>
031	adaptor	855	Socket perpendicular to wire-securing
832	With movably attached user manipulated locking, contact		barrel (e.g., right-angle connector)
	retaining, or spring spreading means	856	Having opposed cantilevered clamping fingers resiliently urged toward one another
833	With separate means to increase clamping pressure of spring clip	857	Allochiral cantilevered clamping fingers
834	Clamping pressure provided by cantilevered finger resiliently urged away from opposed clamping member	858	Having cantilevered clamping finger resiliently urged toward rigid clamping jaw
835	With movably attached user manipulated means or having user grippable means for manually distorting	859	Adapted to resiliently engage end face and inner annular shoulder of headed terminal
836	resilient partSlidably mounted cam or wedge locks or places resilient securing part into securing condition	860	Comprising conductor-encircling resilient wire loop or comprising slotted or apertured resilient plate
837	With additional spring means to operate slidable cam or wedge	861	Having cantilevered clamping finger resiliently urged toward opposed clamping jaw
838	Pivotally or rotatably mounted member locks or places securing part into securing condition	862	Having cantilevered spring contact finger
839	With additional reinforcing spring	863	.Clamping cam or wedge
	means	864	Rotary or swinging
840	Helically coiled spring forms securing part	865	METALLIC CONDUCTOR TERMINAL HAVING CONDUCTOR SHEATH ENGAGING MEANS
841	Adapted to receive elongated contact or conductor by insertion along	866	Pin or plug type terminal
0.40	axis passing through spring coils	867	Resilient or spring-biased socket or clip type terminal
842	Socket adapted to receive push-pull-engaging elongated	868	.Slotted or apertured disc or plate type terminal (e.g., ring terminal)
843	contact by insertion along longitudinal axis of contactHaving separate gripping spring means	869	METALLIC CONNECTOR OR CONTACT HAVING MEANS FOR SECURING TO INSULATION OTHER THAN CONDUCTOR SHEATH
	located within or extending into rigid socket body	870	.Adapted to be secured by permanently bending or deforming metallic part
844	Adapted to be mounted to flat panel with longitudinal axis of socket perpendicular to plane of panel		and the second s
845	Adapted to receive thin blade contact (e.g., spade receiving)		
846	Separate spring means forms snap-latching detent		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	,,		
	METALLIC CONNECTOR OR CONTACT HAVING MEANS FOR SECURING TO INSULATION OTHER THAN CONDUCTOR SHEATH	908	CONTACT HAVING TWO CONTACT SURFACES FOR ELECTRICAL CONNECTION ON OPPOSITE SIDES OF INSULATIVE BODY
871	.Adapted to be secured by resiliently	909	MEDICAL USE OR ATTACHED TO HUMAN BODY
	biased part latching behind shoulder	910	OBSERVATION AIDE, E.G., TRANSPARENT MATERIAL, WINDOW IN HOUSING
872	Latching part unitary with metallic connector or contact	911	SAFETY, E.G., ELECTRICAL DISCONNECTION
873	.Adapted to be secured by part	010	REQUIRED BEFORE OPENING HOUSING
0.0.4	resiliently gripping insulation	912	WITH TESTING MEANS
874	METALLIC CONNECTOR OR CONTACT HAVING PART PERMANENTLY SECURED TO CONDUCTOR USING FUSED OR MOLDED MATERIAL	913	CONDITION DETERMINING DEVICE, E.G., OXYGEN SENSOR, ACCELEROMETER, IONIZER CHAMBER, THERMOCOUPLE
875	Having duplicate locations for permanently securing individual	914	FOR FLASHBULB OR CAMERA (INCLUDING FLASH CUBE)
	conductors thereto	915	AUXILIARY DEVICE FOR EXISTING PLUG
876	Adapted to be secured to conductor	916	ANTENNA
000	formed on printed circuit board	917	ALARM CIRCUIT, E.G., WINDOW AFFIXED FOIL
877	METALLIC CONNECTOR OR CONTACT ALSO HAVING SECURING PART ADAPTED TO BE	918	MULTILAMP VEHICLE PANEL
	CRIMPED, DEFORMED, OR BENT ONTO CONDUCTOR	919	FOR TREATMENT BY ELECTRICAL CURRENT, E.G., MAGNET OR BATTERY CHARGER, HEATER, WELDER, ETC.
878	.Securing part crimped or bent onto	920	FOR INTERCONNECTING RIGID PIPELIKE
	looped end of wire conductor	2-0	BODIES, E.G., WAVE GUIDES
879 880	.Multipart assembly .Having duplicate receiving means for	921	TRANSFORMER BUSHING TYPE OR HIGH VOLTAGE UNDERGROUND CONNECTOR
	permanently securing individual	922	TELEPHONE SWITCHBOARD PROTECTOR
	conductors thereto	923	SEPARATION OR DISCONNECTION AID
881	Wire conductor secured transverse to contact portion (e.g., right-angle	924.1	CONTACTS ARRANGED FOR SEQUENTIAL CONNECTION
000	connector)	924.2	.With contact preventer to require
882	.Wire conductor secured within ferrule having series of preformed wire	005	joining in a given sequence
	gripping means therein	925	FLOOR MOUNTED, E.G., UNDER CARPET
883	METALLIC CONNECTOR OR CONTACT COMPRISING A SLOTTED OR APERTURED DISC OR PLATE	926	WITHIN MACHINE CASING OR MOTOR HOUSING (CONNECTOR WITHIN CASING WALL)
884	CONTACT TERMINAL	927	CONDUCTIVE GASKET
885	.Strip of detachable contacts	928	MODULAR ELECTRICALLY INTERENGAGING
886	.Having treated (e.g., coated) surface or distinct contact surface layer		PARTS, E.G., STOVE WITH REPLACEABLE HEATING ELEMENTS FORMED ON COUPLING PARTS
887	.Of particular metal or alloy	928.1	.Plug-in carrier or adapter for
888	.Having provision for retaining to mating wire (e.g., wire wrap)	22012	removable component (e.g., "hard drive" for computer)
889	.Having provision for retaining to mating contact	929	CONNECTING BASE PLATE OR SHELF TYPE HOLDER
890	<pre>.For functioning electrical component, (e.g., tube, lamp, fuse, spark plug,</pre>	930	COUPLING PART WHEREIN CONTACT IS COMPRISED OF A WIRE OR BRUSH
	etc.)	931	CONDUCTIVE COATING
891	.Multipart contact prong	932	HEAT SHRINK MATERIAL
892	DISTINCT COVERING MEANS	933	SPECIAL INSULATION
893	.Covering functioning electrical component (e.g., tube, lamp, fuse, spark plug, etc.)	934	.High voltage barrier (e.g., surface arcing or corona preventing
894	MISCELLANEOUS		insulator)
051	*******	935	.Glass or ceramic contact pin holder
	CROSS-REFERENCE ART COLLECTIONS	936	<pre>.Potting material or coating (e.g., grease, insulative coating, sealant or, adhesive)</pre>
901	CONNECTOR HOOD OR SHELL	937	.Plural insulators in strip form
902	Angularly disposed contact and conductor	938.1	CATHODIC PROTECTION OF STRUCTURE (E.G.,
903	.Special latch for insert	020	SHIP HULL)
904	.Multipart shell	939	WITH GROUNDING TO METAL MOUNTING PANEL
905	Axially joined sections		
906	Longitudinally divided		
907	CONTACT HAVING THREE CONTACT SURFACES,		
J ()	INCLUDING DIVERSE SURFACE		

[#] Title Change
* Newly Established Subclass

[@] Indent Change & Position Change

	•		MARCH 2009
940	INCLUDING PROVISION FOR MECHANICAL LIFTING OR MANIPULATION (E.G., FOR	* FOR 106	mating outer shield members (439/609) .Having means for electrically
941	VACUUM LIFTING) CROSSTALK SUPPRESSION	" FOR 100	connecting shield of shielded cable
942	COMBLIKE RETAINER FOR CONDUCTOR		to connector shield member (439/610)
943	INCLUDING PROVISION FOR PRESSING CONTACT INTO PCB HOLE		
944	COAXIAL CONNECTOR HAVING CIRCUIT-INTERRUPTING PROVISION EFFECTED BY MATING OR HAVING "DEAD" CONTACT ACTIVATED AFTER MATING		
945	ADAPTER FOR PCB OR CARTRIDGE		
946	MEMORY CARD CARTRIDGE		
947	PCB MOUNTED CONNECTOR WITH GROUND TERMINAL		
948	CONTACT OR CONNECTOR WITH INSERTION DEPTH LIMITER		
949	JUNCTION BOX WITH BUSBAR FOR PLUG-SOCKET TYPE INTERCONNECTION WITH RECEPTACLE		
950	ELECTRICAL CONNECTOR ADAPTED TO TRANSMIT ELECTRICITY TO MATING CONNECTOR WITHOUT PHYSICAL CONTACT (E.G., BY INDUCTION, MAGNETISM, OR ELECTROSTATIC FIELD)		
951	PCB HAVING DETAILED LEADING EDGE		
952	JUMPER FOR USE WITH SPECIFIC APPARATUS		
953	WITH LATCH ROD TO BE RETAININGLY RECEIVED BY OPENING OF MATING CONNECTOR		
954	SPECIAL ORIENTATION OF ELECTRICAL CONNECTOR		
955	INCLUDING ELECTRONIC IDENTIFIER OR CODING MEANS		
956	WITH MEANS TO ALLOW SELECTION OF DIVERSE VOLTAGE OR POLARITY		
957	AUXILIARY CONTACT PART FOR CIRCUIT ADAPTATION	÷	

	FOREIGN ART COLLECTIONS		

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

CLASS-RELATED FOREIGN DOCUMENTS

FOR 000

FOR	100	WITH CIRCUIT COMPONENT OR COMPRISING CONNECTOR WHICH FULLY ENCLOSES CIRCUIT COMPONENT (439/620)
FOR	101	.With or for fuse (439/621)
FOR	102	Comprising coupling part housing for enclosing fuse (439/622)
* FOR	103	HAVING OR PROVIDING INDUCTIVE OR CAPACITIVE SHIELD (439/607)
* FOR	104	.Conductive shielding material individually surrounding or interposed between mutually insulated contacts (439/608)
* FOR	105	Resilient conductive means providing

additional electrical path between

[#] Title Change
* Newly Established Subclass

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
162/135	1	439/607	832
439/108	1	439/607	832
439/320	1	439/610	352
439/460	1	439/607	832
439/564	1	439/607	832
439/579	2	439/610	352
439/606	1	439/607	832
439/607.01	1	439/609	95
	3	439/610	352
	13	439/608	371
	193	439/607	832
439/607.02	1	439/610	352
	7	439/608	371
	18	439/607	832
439/607.03	1	439/610	352
	3	439/608	371
	8	439/607	832
439/607.04	1	439/610	352
	30	439/607	832
439/607.05	1	439/610	352
	6	439/607	832

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
	57	439/608	371
439/607.06	1	439/607	832
	22	439/608	371
439/607.07	4	439/607	832
	53	439/608	371
439/607.08	1	439/609	95
	2	439/607	832
	37	439/608	371
439/607.09	17	439/608	371
439/607.10	1	439/607	832
	32	439/608	371
439/607.11	1	439/610	352
	7	439/607	832
	34	439/608	371
439/607.12	2	439/607	832
	19	439/608	371
439/607.13	4	439/608	371
	12	439/607	832
439/607.14	4	439/607	832
	5	439/608	371
439/607.15	1	439/607	832
	2	439/610	352

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
	3	439/608	371
439/607.16	9	439/608	371
439/607.17	1	439/608	371
	5	439/607	832
	43	439/609	95
439/607.18	2	439/608	371
	4	439/607	832
	11	439/609	95
439/607.19	8	439/607	832
	13	439/609	95
439/607.20	1	439/609	95
	2	439/608	371
	23	439/607	832
439/607.21	2	439/607	832
439/607.22	1	439/608	371
	1	439/609	95
	17	439/607	832
439/607.23	2	439/608	371
	8	439/609	95
	21	439/607	832
439/607.25	1	439/609	95

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
	1	439/610	352
	13	439/607	832
439/607.26	1	439/608	371
	11	439/607	832
439/607.27	2	439/608	371
	2	439/610	352
	25	439/607	832
439/607.28	2	439/608	371
	2	439/609	95
	2	439/610	352
	34	439/607	832
439/607.29	1	439/607	832
439/607.30	1	439/609	95
	1	439/610	352
439/607.31	3	439/609	95
	13	439/607	832
439/607.32	1	439/610	352
	13	439/607	832
439/607.33	7	439/607	832
439/607.34	5	439/608	371
	6	439/607	832

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
439/607.35	1	439/610	352
	2	439/609	95
	3	439/608	371
	40	439/607	832
439/607.36	1	439/609	95
	2	439/608	371
	29	439/607	832
439/607.37	25	439/607	832
439/607.38	1	439/610	352
	16	439/607	832
439/607.39	1	439/607	832
	8	439/608	371
439/607.40	1	439/609	95
	2	439/608	371
	3	439/610	352
	30	439/607	832
439/607.41	1	439/609	95
	2	439/608	371
	10	439/607	832
	97	439/610	352
439/607.42	1	439/607	832

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
	5	439/610	352
439/607.43	1	439/608	371
	5	439/607	832
	7	439/610	352
439/607.44	38	439/610	352
439/607.45	1	439/609	95
	5	439/607	832
	14	439/610	352
439/607.46	1	439/607	832
	10	439/610	352
439/607.47	4	439/607	832
	40	439/610	352
439/607.48	1	439/608	371
	3	439/607	832
	27	439/610	352
439/607.49	3	439/610	352
	4	439/607	832
439/607.50	1	439/608	371
	3	439/607	832
	31	439/610	352
439/607.51	1	439/607	832
	19	439/610	352

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New Classification	Number of ORs	Source Classification	Number of ORs
439/607.52	2	439/607	832
	13	439/610	352
439/607.53	1	439/610	352
	24	439/607	832
439/607.54	1	439/610	352
	11	439/607	832
439/607.55	1	439/608	371
	2	439/610	352
	18	439/607	832
439/607.56	1	439/608	371
	5	439/610	352
	11	439/607	832
439/607.57	3	439/610	352
	4	439/607	832
439/607.58	1	439/608	371
	5	439/610	352
	16	439/607	832
439/680	1	439/608	371
439/74	1	439/607	832
439/79	1	439/608	371
439/82	1	439/607	832

PROJECT E-6764

SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
439/95	1	439/607	832

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Source Classification		New Classification	Number of ORs
439/607	832	162/135 439/74 439/82 439/95 439/108 439/564 439/606 439/607.01 439/607.02 439/607.05 439/607.05 439/607.05 439/607.10 439/607.11 439/607.12 439/607.12 439/607.15 439/607.15 439/607.15 439/607.22 439/607.20 439/607.20 439/607.20 439/607.20 439/607.20 439/607.20 439/607.21 439/607.25 439/607.25 439/607.25 439/607.26 439/607.27 439/607.28 439/607.29 439/607.31 439/607.31 439/607.31 439/607.33 439/607.35	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		439/607.36 439/607.37	29 25

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Source Classification		New Classification	Number of ORs
		439/607.38	16
		439/607.39	1
		439/607.40	30
		439/607.41	10
		439/607.42	1
		439/607.43	5
		439/607.45	5
		439/607.46	1
		439/607.47	4
		439/607.48	3
		439/607.49	4
		439/607.50	3
		439/607.51	1
		439/607.52	2
		439/607.53	24
		439/607.54	11
		439/607.55	18
		439/607.56	11
		439/607.57	4
120/600	251	439/607.58	16
439/608	371	439/79	1
		439/680	1
		439/607.01	13
		439/607.02	7
		439/607.03	3
		439/607.05	57
		439/607.06	22
		439/607.07	53 37
		439/607.08	37 17
		439/607.09 439/607.10	32
		439/607.10	34
		439/607.11	19
		439/607.12	4
		439/607.13	
		439/607.14	5 3
		439/607.15	9
		439/607.10	1
		439/607.17	2
		439/607.10	2
		439/607.22	1
		132/001.22	

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

439/607.23 2 439/607.26 1 439/607.27 2 439/607.28 2 439/607.34 5 439/607.35 3 439/607.36 2 439/607.40 2 439/607.41 2 439/607.55 1 439/607.55 1 439/607.55 1 439/607.56 1 439/607.58 1 439/607.58 1 439/607.17 43 439/607.08 1 439/607.17 43 439/607.18 11 439/607.19 13 439/607.20 1 439/607.20 1 439/607.20 1 439/607.20 1 439/607.20 1 439/607.20 1 439/607.20 1 439/607.25 1 439/607.25 1 439/607.25 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.36 1 439/607.40 1 439/607.41 1 439/607.41 1 439/607.45 1	Source Classification		New Classification	Number of ORs
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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Source Number Classification of ORs	New Classification	
	439/607.15	2
	439/607.25	1
	439/607.27	2
	439/607.28	2
	439/607.30	1
	439/607.32	1
	439/607.35	1
	439/607.38	1
	439/607.40	3
	439/607.41	97
	439/607.42	5
	439/607.43	7
	439/607.44	38
	439/607.45	14
	439/607.46	10
	439/607.47	40
	439/607.48	27
	439/607.49	3
	439/607.50	31
	439/607.51	19
	439/607.52	13
	439/607.53	1
	439/607.54	1
	439/607.55	2
	439/607.56	5
	439/607.57	3
	439/607.58	5

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

	<u>ISPC</u>	<u>IPC</u>	27
<u>Class</u>	<u>Subclass</u>	<u>Subclass</u>	<u>Notation</u>
439	607.01- 607.04	H01R	13/648
	607.05- 607.16		13/648
	007.03 007.10		13/040
	607.17-607.40		13/648
	607.41-607.59		9/03

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D. CHANGES TO THE DEFINITIONS

CLASS 29 - METAL WORKING

Definitions Modified

Subclass 855: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclasses 271+ for an electrical connector pro vided with a joint sealing gasket or packing and subclasses 607.01-607.05 for an electrical connector with a radio type electrical shield.

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D. CHANGES TO THE DEFINITIONS

CLASS 102 - AMMUNITION AND EXPLOSIVES

Definitions Modified

Subclass 202.2: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclasses 607.01-607.05 for quick make and break connectors having a screen to reduce or eliminate the self-inductance of a connector or external magnetic fields on a connector.

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D. CHANGES TO THE DEFINITIONS

CLASS 313 - ELECTRIC LAMP AND DISCHARGE DEVICES

Definitions Modified

Class Definition: Section IV, under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, for device with separable electrical connector, for device with electrical connector and for electrode with connector structure; and for electrode and shield with joint between parts; subclasses 607.01-607.05 for connector with anti-inductive shield; and subclasses 611+ for connector having vitreous envelope secured thereto.

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, provides for a device having electrical connector structure where no significant structure for the device is recited other than that necessary to provide for or to cooperate with electrical connector structure. This class includes an electrode for an electric lamp or space discharge device where the only structure of the electrode recited is that necessary to provide for or to cooperate with electrical connector structure; see subclasses 607.01-607.05 for the combination of an electrical connector and means to shield the connector portions from radiating electromagnetic waves for which see. (Lines With Other Classes and Within This Class, "Electrodes Combined With Connector Structure").

Subclass 118: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

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D. CHANGES TO THE DEFINITIONS

Insert:

439, Electrical Connectors, appropriate subclasses for an electrical connector or certain connector related accessories. Note that this class includes the combination of an electrical connector with a named spark plug. Search especially subclasses 125+ for an electrical connector having a spark or glow plug cover. Also, search subclasses 191+ for the combination of an electrical connector with a fluent material transmission line. Search subclasses 271+ for an electrical connector with a packing or gasket to seal the joint with a mating connector; subclasses 312+ for a coupling part with coupling part movement-actuating means or retaining means in addition to a contact thereof with relatively pivotable concentric movement-actuating or retaining ring. Search this class, subclasses 607.01-607.05 for a connector with a radiation shielding means; and subclasses 625+ for a connector with insulation other than a conductor sheath.

Subclass 134: Under SEE OR SEARCH CLASS,

Delete:

The reference to Class 429

Insert:

439, Electrical Connectors, subclasses 125+ for an electrical connector with a spark or glow plug cover; and subclasses 607.01-607.05 for an electrical connector having or providing an inductive or capacitive shield.

Subclass 135: Under SEE OR SEARCH CLASS, in the reference to Class 439

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, appropriate subclasses for an electrical connector and for certain accessories. This class provides for an electrical connector combined with a "named" spark plug, (i.e., no more of the spark plug is claimed than is necessary to support or attach the connector to the spark plug). Search subclasses 125+ for a spark plug connector with a cover, or for a spark plug cover, per se; sub classes 191+ for an electrical connector combined with a fluid line conduit (e.g., air vent or priming means); subclasses 271+ for an electrical connector with a packing or gasket to seal the joint between the connector and a mating connector; subclasses 312+ for an electrical connector with a coupling movement-actuating relatively pivotable

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D. CHANGES TO THE DEFINITIONS

concentric ring in addition to the contacts thereof; subclasses 607.01-607.05 for an electrical connector with a radiation shielding means; and appropriate other subclasses for an electrical connector generally which may be used on a spark plug.

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D. CHANGES TO THE DEFINITIONS

CLASS 337 - ELECTRICITY: ELECTROTHERMALLY OR THERMALLY ACTUATED SWITCHES

Definitions Modified

Subclass 199: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclasses 92+ for an electrical connector with safety grounding provision; subclasses 607.01-607.05 for an electrical connector having or providing an inductive or capacitive shield.

Subclass 222: Under SEE OR SEARCH CLASS,

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclasses 190+ for an electrical connector having a retainer or passageway for fluent material; subclasses 382+ for an electrical connector including vibration cushioning or absorbing means; subclasses 449+ for an electrical connector with stress relieving means; subclasses 485+ for an electrical connector with provision to dissipate, remove, or block the flow of heat; subclasses 519+ for an electrical connector with provision the restrict environmental effects; and subclasses 607.01 - 607.05 for a connector having or providing an inductive or capacitive shield.

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D. CHANGES TO THE DEFINITIONS

CLASS 361 ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

Definitions Modified

Subclass 306.1: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, appropriate subclasses for connectors, per se; subclasses 607.01-607.05 for condenser connector having capacitive shield; and subclasses 620.01-620.34 for filter connectors.

Subclass 800: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclass 497 for connector including tape cable with shield and subclasses 607.01-607.05 for connector having or providing inductive or capacitive shield.

Subclass 816: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclass 497 for connector including tape cable with shield and subclasses 607.01-607.05 for connector having or providing inductive or capacitive shield.

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D. CHANGES TO THE DEFINITIONS

CLASS 365 STATIC INFORMATION STORAGE AND RETRIEVAL

Definitions Modified

Subclass 53: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 439

Insert:

439, Electrical Connectors, subclasses 607.01-607.05 for an electrical connector having or providing inductive or capacitive shielding.

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D. CHANGES TO THE DEFINITIONS

CLASS 439 - ELECTRICAL CONNECTORS

Definitions Abolished

Subclasses

607 - 610

Definitions Modified

Subclass 88: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to 607+

Insert:

607.01, through 607.59, for an electrical connector having an inductive or capacitive shield, generally.

Subclass 92: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to 607+

<u>Insert:</u>

607.08, through 607.28, for an electrical connector having or providing inductive or capacitive shielding, including means for grounding the shield.

Subclass 125: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to 607+

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D. CHANGES TO THE DEFINITIONS

Insert:

607.01, through 607.59, for a shielded electrical connector not peculiar to a spark plug.

Subclass 578: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to 607+

Insert:

607.01, through 607.59, for an electrical connector adapted to be electrically connected to a conductor or cable other than a coaxial cable and which provides electrostatic or inductive shielding or internally disposed contacts.

Definitions Established

607.01 ELECTROMAGNETIC OR ELECTROSTATIC SHIELD:

This subclass is indented under the class definition. Subject matter comprising a conductive screen means for preventing or reducing the detrimental effect induced within a connector or contact* due to capacitive or inductive coupling.

- (1) Note. Since there are included herein connectors of the type adapted to be electrically connected to a cable* having an outer conductive shield concentrically surrounding the longitudinal axis of the cable, there is a similarity between the connectors for coaxial cables found in subclasses 578-585 and some of the connectors included in this and the indented subclasses. The similarity relates, however, only to the tubular outer contact, because the shielded-cable connectors included in these subclasses (607.01) are adapted to be secured to cables having at least one inner conductor whose longitudinal axis does not extend along the longitudinal axis of the cable, whereas the connectors in subclasses 578-585 are adapted to be secured only to cables in which the longitudinal axes of all of the conductors coincide with the longitudinal axis of the cable.
- (2) Note. Since electric fields induce noise voltages capacitively, it is common to surround a connector or contact with a grounded conducting shield in order to reduce stray pickup from external sources or crosstalk between mutually insulated contacts. Since external magnetic fields induce noise currents inductively, it is common to surround a connector or contact with a high-permeability ferromagnetic enclosure which reduces the intensity of magnetic fields.

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D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH THIS CLASS. SUBCLASS

- 88, through 90, for an electrical connector which includes an elastomeric or nonmetallic conductive portion and which provides anti inductive shielding.
- 92, through 108, for an electrical connector having a specific provision to electrically connect a portion thereof to the earth for the purpose of providing a safety ground for the electrical connector, and see Note (2) above, and see the Notes appended to subclass 92.
- 125, through 128, particularly subclass 126 for a spark plug cover or shield of an electrostatic suppressing nature.
- 274, through 279, for an electrical connector combined with a distinct cable sheath sealing element or material, which connector may also provide inductive or capacitive shielding.
- 578, through 585, for an electrical connector specifically adapted for use with coaxial cables, which connector often includes an inductive or capacitive shielding function, and see Note (1) above.
- 941, for an electrical connector with means other shielding material as defined for this subclass for suppressing crosstalk.

607.02 Shield formed of conductive and dielectric materials in dielectric (e.g., plastic coated with metal or filled with metal particles:

This subclass is indented under subclass 607.01. Subject matter wherein shield housing is formed of an insulative body coated or plated with a thin metal layer or is formed of an insulative body filled with metal particles to provide a shielding or static discharge effect.

SEE OR SEARCH THIS CLASS, SUBCLASSES

88, through 90, for an electrical connector which includes an elastomeric or nonmetallic conductive portion and which provides anti inductive shielding.

607.03 Conductive coating surround mutually isolated contacts:

This subclass is indented under subclass 607.02. Subject matter wherein the conductive material both surrounds and provides a conductive shield between a set of separate contacts.

607.04 Shield with cutout to receive shield of mating connector to reduce field effects:

This subclass is indented under subclass 607.01. Subject matter wherein at least one of the shields includes an opening formed to receive a portion of the shield of the mating connector to increase shielding effects.

607.05 Shielding individually surrounding or interposed between mutually insulated contacts (i.e., "single" connector with divider):

This subclass is indented under subclass 607.01. Subject matter wherein having two or more mutually insulated electrical paths to form an electrical joint, wherein the shield

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surrounds or is inserted in a portion of contacts, so that contacts are shielded from the one or more other contacts.

- (1) Note. The conductive shielding may be formed around, but spaced apart from, a portion of one or more contacts, so that the contact is inductively screened from the one or more other contacts.
- (2) Note. The conductive shielding may be interposed between two or more contacts, so that the contacts are inductively screened from one another.

607.06 Planar shields separating multiple (three or more) thin connector modules:

This subclass is indented under subclass 607.05. Subject matter wherein the connector is formed of an assembly of thin flat insulative contact supporting members and thin planar shields located between the insulative contact supporting members.

607.07 For mounting on PCB:

This subclass is indented under subclass 607.06. Subject matter including structure to attach the shield to a printed circuit board.

607.08 Shield with divider wall separating contacts (includes wall formed by ground contacts):

This subclass is indented under subclass 607.05. Subject matter wherein shielding structure is formed by conductive members or walls that form compartments for receiving individual or pairs of contacts*.

607.09 For mounting on PCB:

This subclass is indented under subclass 607.08. Subject matter including structure to attach the shield to a printed circuit board.

607.1 Three or more rows and columns of contact spaces, formed by shield walls:

This subclass is indented under subclass 607.09. Subject matter where in the shield is formed as a unitary housing with walls forming compartments for contacts and there being at least three rows and columns of compartments and columns of compartments.

607.11 Right angle connection on PCB:

This subclass is indented under subclass 607.09. Subject matter wherein the connector is fixed upon and electrically joined to a printed circuit board and is arranged with it's mating connection direction substantially perpendicular to the plane of the printed circuit board.

607.12 Planar shield with openings for individual contacts:

This subclass is indented under subclass 607.05. Subject matter wherein the shield is a flat conductive member having apertures that receive contacts*.

607.13 Shield housing mounted on PCB:

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D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 607.05. Subject matter wherein means for surrounding and supporting the shield are fixed upon and electrically joined to a printed circuit board.

607.14 Socket for receiving edge type connector or integrated circuit:

This subclass is indented under subclass 607.13. Subject matter wherein the shield housing has an opening shaped for receipt of a leading edge of an electronic circuit member such as a printed circuit board or an opening shaped for receipt of a memory chip package.

607.15 With conductive housing part separating wires:

This subclass is indented under subclass 607.05. Subject matter wherein conductive walls of the connector* define separate passages for wires adjacent to their connection to contacts of the connector*.

607.16 Vacuum tube socket:

This subclass is indented under subclass 607.05. Subject matter wherein the shield encloses an insulative body having openings for receiving male or pin-like contacts of mating connector and the openings are arranged at positions on a circle that surrounds the central axis of the insulative body.

SEE OR SEARCH THIS CLASS, SUBCLASS

607.59, for vacuum tube socket in electromagnetic or electrostatic shield, per se.

607.17 Resilient conductive means providing additional electrical path between mating outer shield members (e.g., spring or gasket):

This subclass is indented under subclass 607.01. Electrical connector wherein the shield comprises a conductive member for surrounding one or more mutually-insulated contacts* and has a deformable electrical connection to a complementary counterpart.

- (1) Note. The shield is electrically engaged with the shield counter-contact, the conductive path of the shield means extends over both the coupling part and its counterpart and wherein the shield of the coupling part further includes an additional conductive element having a portion thereof either engaged or adapted to be engaged with the shield of the coupling part and having a resilient portion thereof engage able with the screen counter-contact or the counterpart.
- (2) Note. When the coupling part and its counterpart are joined together, an additional conductive path is formed between the conductive screen member of the coupling part and the conductive screen member of the counterpart.

SEE OR SEARCH THIS CLASS, SUBCLASSES

827, for plug having separate resilient means extending externally around or outwardly through rigid plug body.

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D. CHANGES TO THE DEFINITIONS

843, for socket having separate conductive spring located within or extending into rigid socket body.

607.18 Conductive gasket (i.e., flat gasket or O-ring):

This subclass is indented under subclass 607.17. Subject matter wherein the deformable connection is comprised of a flat sheet like member or a ring of substantially circular or square cross section.

(1) Note. These type spring members are typically formed of elastomeric material.

607.19 Conductive spring on exterior of corresponding shield:

This subclass is indented under subclass 607.17. Subject matter wherein the deformable connection is mounted onto the shield of one connector so as to surround at least a portion of that shield.

607.2 Shield for electro-optical transceiver:

This subclass is indented under subclass 607.01. Subject matter wherein the shield enclosures a connector that includes circuitry for transforming optical signals to electrical signals.

(1) Note. This subclass provides for nominally recited optical transceivers.

SEE OR SEARCH THIS CLASS, SUBCLASS

607.24, for shield surrounds diverse type connectors including optical connectors but not optical transceiver connectors.

607.21 For plural transceiver housings:

This subclass is indented under subclass 607.2. Subject matter wherein the shield houses two or more transceivers.

(1) Note. Transceiver housings are mounted to be adjacent or in a specific arrangement to one another.

607.22 IC card type:

This subclass is indented under subclass 607.01. Subject matter wherein the shield is formed to enclose a printed circuit board and includes an electrical connector at one end for insertion into a slot-like receiver (socket) of an electronic apparatus.

(1) Note. IC card type is usually a thin housing formed by top and bottom shield covers.

SEE OR SEARCH THIS CLASS, SUBCLASS

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D. CHANGES TO THE DEFINITIONS

76.1, for housings that enclose a printed circuit board and include an electrical connector at one end of the housing.

607.33, for receiving IC card

SEE OR SEARCH CLASS

361, Electricity: Electrical Systems and Devices, subclass 737 for an IC card or card member that encloses a printed circuit board.

607.23 Shield encloses plural connectors (i.e., modular or stacked):

This subclass is indented under subclass 607.01. Subject matter wherein the shield encloses two or more connectors*.

SEE OR SEARCH THIS CLASS, SUBCLASS

541.5, for stacked right-angle connector for use on a printed circuit board.

607.24 Shield surrounds diverse type connectors (i.e., surrounds optical and electrical connectors):

This subclass is indented under subclass 607.23. Subject matter wherein the shield encloses two or more structurally different connector housings.

SEE OR SEARCH THIS CLASS, SUBCLASS

607.2, for shield for electro-optical transceiver (all mounted on printed circuit board).

607.25 Shield with plural ports for separate mating connectors:

This subclass is indented under subclass 607.23. Subject matter wherein the shield includes plural openings so that each one forms a port for receipt of a separate mating connector as it is connected to one of the connectors associated with the shield.

607.26 RJ type sockets:

This subclass is indented under subclass 607.25. Subject matter wherein each of the shielded connectors includes a rectangular opening with resilient contacts on one side and a latch engaging shoulder on the opposite interior side.

(1) Note. RJ type sockets are typically used in telecommunications.

SEE OR SEARCH THIS CLASS, SUBCLASS

607.38, for RJ sockets in shield mounted on printed circuit board.

607.27 Outer shield surrounds inner shield (i.e., single connector with one hollow shield about another hollow shield):

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This subclass is indented under subclass 607.01. Subject matter wherein, for a single connector, one shield substantially fully encloses another (inner) shield.

607.28 With connection of shield to metal grounding panel:

This subclass is indented under subclass 607.01. Subject matter wherein the shielded connector includes structure for conductively joining the shield to a grounded mounting panel that supports either the connector or another to which it can be mated.

SEE OR SEARCH THIS CLASS, SUBCLASS

939, for an electrical connector having a shield with grounding of the shield to a conductive mounting panel that supports either the connector or the connector to which it is to be mated.

607.29 Expansion card bracket (usually L-shaped bracket for computer cards):

This subclass is indented under subclass 607.28. Subject matter wherein the shield is or includes an elongated bracket that is attachable to an edge of a printed circuit board and is used to shield and mount the printed circuit board to an interior wall of an electronic apparatus housing.

607.3 With conductive gasket (e.g., flat gasket or O-ring):

This subclass is indented under subclass 607.28. Subject matter including a separate conductive member that is fitted between a shield of a connector and a metal panel and that electrically connects the shield of a connector and the metal panel.

607.31 For receiving PCB edge or IC card as mating member:

This subclass is indented under subclass 607.01. Subject matter wherein the shield protects and provides access to a connector which includes an elongated slot for receiving PCB edge or IC card as mating member and includes contacts mounted within the connector for engaging counter - contacts on the inserted member.

607.32 Right angle connector on PCB:

This subclass is indented under subclass 607.31. Subject matter wherein the connector and the shield are fixed upon and electrically joined to a printed circuit board and are arranged so that the mating connection direction is substantially perpendicular to the plane of the printed circuit board.

607.33 For receiving IC card:

This subclass is indented under subclass 607.32. Subject matter wherein the shield and connector receive a printed circuit board or integrated circuit enclosed in thin card-like housing.

SEE OR SEARCH THIS CLASS, SUBCLASS

76.1, for housings that enclose a printed circuit board and include an electrical connector at one end of the housing.

607.22, for IC card type.

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D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH CLASS

361, Electricity: Electrical Systems and Devices, subclass 737, for an IC card or card member that encloses a printed circuit board.

607.34 With connection of shield to connector contact:

This subclass is indented under subclass 607.01. Subject matter wherein a conductive element provides a conductive path between one of the connector contacts and the shield.

SEE OR SEARCH THIS CLASS, SUBCLASS

95, for grounding structure with connection of the ground contact to a connector container or housing.

607.35 Shield mounted on printed circuit board:

This subclass is indented under subclass 607.01. Subject matter including structure to attach the shield to a printed circuit board.

SEE OR SEARCH THIS CLASS, SUBCLASS

- 544, for a connector housings mounted to a panel with a portion of the connector housing or its mating part extending into the panel opening.
- 569, for a connector housing mounted by using a flange on the connector housing.
- 571, for a connector housing mounted to a supporting panel.

607.36 Shield surface-mounted to PCB(i.e., without penetration of the PCB):

This subclass is indented under subclass 607.35. Subject matter including structure to attach the shield electrically and structurally to a surface of a PCB without penetration of the Pcb, e.g., to a conductive pad or trace on the surface of the PCB.

607.37 With separate conductive member fixing shield to PCB (e.g., resilient or threaded latch):

This subclass is indented under subclass 607.35. Subject matter wherein a distinct, electrically conductive structural member, such as a conductive fastener is attached to the shield and passed into or through an aperture in a PCB to connect the shield electrically and structurally to the PCB.

607.38 For RJ socket:

This subclass is indented under subclass 607.35. Subject matter wherein the shielded connector includes a rectangular opening with resilient contacts on one side and a latch engaging shoulder on the opposite interior side.

- (1) Note. Shield encloses RJ socket and both are mounted to PCB.
- (2) Note. RJ type sockets are typically used in telecommunications.

SEE OR SEARCH THIS CLASS, SUBCLASS

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D. CHANGES TO THE DEFINITIONS

607.26, for RJ sockets in shield with plural ports for separate mating connectors.

607.39 Vertically mounted wafer edge connector:

This subclass is indented under subclass 607.35. Subject matter wherein the connector includes a greater number of contacts along a line perpendicular to the PCB plane than the number along a line parallel to the PCB (i.e., thin connector with one or two vertical rows of contacts).

607.4 Parallel connector on PCB:

This subclass is indented under subclass 607.35. Subject matter wherein the connector is fixed upon and electrically joined to a printed circuit board and is arranged with its mating connection direction substantially parallel to the plane of the printed circuit board.

SEE OR SEARCH THIS CLASS, SUBCLASS

79, for a connector housing with contacts formed into a right angle shapes and to be mounted on a printed circuit board.

607.41 Having means for electrically connecting shield of shielded cable to connector shield member:

This subclass is indented under subclass 607.01. Electrical connector wherein the conductive shield member of a coupling part includes means specifically adapted to electrically connect a conductive shielding sheath of a shielded cable to the conductive shield member.

SEE OR SEARCH THIS CLASS, SUBCLASSES

- 98, through 99, for an electrical connector having a safety grounding provision and having means for grounding to a conductive sheath of a cable.
- 274, 275, and 279, for an electrical connector combined with a distinct cable sheath sealing element or material, which connector may also provide inductive or capacitive shielding.
- 578, through 585, for similar structure where the shielded cable is a "coaxial cable". See this class, subclass 578 definition and Note (1).

607.42 For armored cable:

This subclass is indented under subclass 607.41 . Subject matter wherein the inner conductors of the shielded cable are enclosed in a metal sheath that provides significant mechanical protection of the conductors and typically is formed with adjacent convolutions.

607.43 For RJ plug:

This subclass is indented under subclass 607.41. Subject matter wherein the connector is a type that is generally rectangular in shape and includes a row of rigid contacts along only one side and usually include a latch along the other side.

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(1) Note. RJ plug is typically used in telecommunications.

607.44 With added means connecting cable shield to external structure (i.e., to panel or to terminal block casing):

This subclass is indented under subclass 607.41. Subject matter wherein a further conductive member, such as a wire, is used to electrically connect the cable shield to a structural body.

(1) Note. A structural body such as a metal panel that supports the connector to which the cable shield is joined.

607.45 For cable with two outer shields:

This subclass is indented under subclass 607.41. Subject matter wherein the cable includes two or more conductive shielding sheaths with one surrounding the other.

607.46 Connector with internal PCB (i.e., shield soldered to PCB in housing):

This subclass is indented under subclass 607.41. Subject matter wherein the connector includes a printed circuit board and the conductive sheath of the cable is conductively attached to a terminal of the PCB.

607.47 Longitudinally divided shield parts:

This subclass is indented under subclass 607.41. Subject matter wherein the shield is formed by a first and a second shell like structure and wherein the structures meet along a line parallel or coplanar to the axis of the shielded cable and the cable enters the shield between the two shell like structures.

SEE OR SEARCH THIS CLASS, SUBCLASS

465, 731, and Digest 906, for connectors with longitudinally divided housing parts where the housing parts do not necessarily provide a shielding.

607.56, for longitudinally divided shield parts in a multi-part shield body.

607.48 At least one shield part crimpable to cable shield:

This subclass is indented under subclass 607.47. Subject matter wherein one of the shells is deformable to become permanently and conductively joined to the cable shield.

607.49 For flat cable:

This subclass is indented under subclass 607.47. Subject matter wherein the shielded cable is in a basically planar or ribbon form with the conductors arranged in one or more rows having at least three conductors in each row.

607.5 Connected to cable shield by crimping:

This subclass is indented under subclass 607.41. Subject matter wherein the shield housing is deformable to become permanently and conductively joined to the cable shield.

607.51 Insulative cover surrounding shield (includes overmolding):

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D. CHANGES TO THE DEFINITIONS

This subclass is indented under subclass 607.5. Subject matter wherein the shield is substantially enclosed by a body of insulative material that fits closely about the shield.

SEE OR SEARCH THIS CLASS, SUBCLASS

604, for an electrical connector housing which is joined to a cable and in which the cable and at least a portion of the housing are embedded in insulative material.

607.52 Connected by portion of shield fitting beneath cable shield or by penetration of cable:

This subclass is indented under subclass 607.41. Subject matter wherein electrical connection to the cable shield is accomplished by forming a portion of the shield housing or a part joined thereto to extend into the interior of the cable shield or to pierce through the material of the cable shield.

SEE OR SEARCH THIS CLASS, SUBCLASS

394, for a connector including a penetrating contact that is to pierce the shield (outer conductor) of a coaxial cable.

607.53 Shield extends over mating face (i.e., shield at mating face extends between contact openings):

This subclass is indented under subclass 607.01. Subject matter wherein the shield includes a portion that overlays a face of an insulative housing of the connector that is opposed to a face of the mating connector and a portion of the shield at such face extends between its contact openings contacts or between the contact openings of the mating face.

607.54 Shield formed by folding:

This subclass is indented under subclass 607.01. Subject matter wherein the shield is produced as a planar member and is folded to surround insulative body of the connector.

607.55 Multi-part shield body:

This subclass is indented under subclass 607.01. Subject matter wherein the shield housing is formed in two or more major sections which are assembled to provide a substantially full enclosure for surrounding connector insulative body.

607.56 Longitudinally divided shield parts:

This subclass is indented under subclass 607.55. Subject matter wherein the shield is formed by a first and a second shell like structure and wherein the structures meet along a line parallel or coplanar to the axis of the shielded cable and a cable enters the shield between the two shell structures.

SEE OR SEARCH THIS CLASS, SUBCLASSES

465, 731, and Digest 906 for connectors with longitudinally divided housing parts where the housing parts do not necessarily provide a shielding.

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607.47, for longitudinally divided shield parts in means for electrically connecting shield of shielded cable to connector shield member.

607.57 With insulative cover or overmolding:

This subclass is indented under subclass 607.56. Subject matter wherein the shield is substantially enclosed by a body of insulative material that fits closely about the shield.

SEE OR SEARCH THIS CLASS, SUBCLASS

604, for an electrical connector housing which is joined to a cable and in which the cable and at least a portion of the housing are embedded in insulative material.

607.58 Insulative cover or overmold surrounds shield:

This subclass is indented under subclass 607.01. Subject matter wherein the shield is substantially enclosed by a body of insulative material that fits closely about the shield.

607.59 Vacuum tube socket:

This subclass is indented under subclass 607.01. Subject matter wherein the shield encloses an insulative body having openings for receiving male or pin-like contacts of mating connector and the openings are arranged at positions on a circle that surrounds the central axis of the insulative body.

SEE OR SEARCH THIS CLASS, SUBCLASS

607.16, for vacuum tube socket in shielding individually surrounding or interposed between mutually insulated contacts.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this class for specific correspondences. [Note: The titles and definitions for <u>indented</u> art collections include all the details of the one(s) that are hierarchically superior.]

FOR 103 HAVING OR PROVIDING INDUCTIVE OR CAPACITIVE SHIELD:

Foreign art collection for electrical connector comprising a conductive screen means for (a) preventing or reducing the detrimental effect induced within a connector or contact* due to capacitive or inductive coupling with electric or magnetic fields generated from a source outside of the connector or contact, or (b) preventing or reducing induced electrical interference or signal loss due to capacitive or inductive coupling between mutually insulated contacts within a plural-contact connector (i.e., reducing crosstalk), or (c) preventing or reducing undesirable loss of electrical information or signal due to electrical radiation of signal from the connector or contact.

(1) Note. Since there are included herein connectors of the type adapted to be electrically connected to a cable* having an outer conductive shield

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concentrically surrounding the longitudinal axis of the cable, there is a similarity between the connectors for coaxial cables found in subclasses 578+ and some of the connectors included in this and the indented subclasses. The similarity relates, however, only to the tubular outer contact, because the shielded-cable connectors included in these subclasses (607+) are adapted to be secured to cables having at least one inner conductor whose longitudinal axis does not extend along the longitudinal axis of the cable, whereas the connectors in subclasses 578+ are adapted to be secured only to cables in which the longitudinal axes of all of the conductors coincide with the longitudinal axis of the cable.

(2) Note. Since electric fields induce noise voltages capactively, it is common to surround a connector or contact with a grounded conducting shield in order to reduce stray pickup from external sources or crosstalk between mutually insulated contacts. Since external magnetic fields induce noise currents inductively, it is common to surround a connector or contact with a high-permeability ferromagnetic enclosure which reduces the intensity of magnetic fields.

FOR 104 Conductive shielding material individually surrounding or interposed between mutually insulated contacts:

Foreign art collection for electrical connector comprising at least two mutually insulated contacts carried in a relatively fixed spaced relation one from another by an insulating body to form a coupling part* specially adapted to mate or interengage with a complementary plural-contact-carrying counterpart* so as to form an electrical joint having at least two mutually insulated electrical paths, and wherein the conductive screen means comprises conductive material either (a) formed around but spaced apart from at least a portion of at least one contact, so that the contact is inductively screened from the one or more other contacts, or (b) interposed between two or more contacts, so that the contacts are inductively screened from one another.

FOR 105 Resilient conductive means providing additional electrical path between mating outer shield members:

Foreign art collection for electrical connector wherein the conductive screen means comprises a conductive member for surrounding one or more mutually-insulated contacts, which conductive member forms an outer screen contact of a coupling part*, which coupling part is specifically adapted to mate or interengage with a complementary counterpart* also having a surrounding outer screen counter-contact*, so that, when the screen contact is electrically engaged with the screen counter-contact, the conductive path of the screen means extends over both the coupling part and its counterpart, and wherein the conductive screen member of the coupling part further includes an additional conductive element having a portion thereof either engaged or adapted to be engaged with the screen contact of the coupling part and having a resilient portion thereof engageable with the screen counter-contact or the counterpart, so that, when the coupling part and its counterpart are joined together, an additional conductive path is formed

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between the conductive screen member of the coupling part and the conductive screen member of the counterpart.

FOR 106 Having means for electrically connecting shield of shielded cable to connector shield member:

Foreign art collection for electrical connector wherein the conductive screen means comprises a conductive member for surrounding one or more contacts, which conductive member forms an outer screen contact of a coupling part*, which coupling part is specially adapted to mate or interengage with a complementary counterpart* having a screen counter-contact*, so that, when the screen contact is electrically engaged with the complementary screen counter-contact of the counterpart, the conductive path of the screen means extends over both the coupling part and its counterpart, and wherein the conductive screen member of the coupling part further includes means specially adapted to electrically connect the conductive shielding sheath of a shielded cable* to the conductive screen member.