The following classification changes will be effected by this order:

<table>
<thead>
<tr>
<th>Abolished:</th>
<th>Class</th>
<th>Subclasses</th>
<th>Art Unit</th>
<th>Ex'r Search Room No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>439</td>
<td>620-622</td>
<td>2833</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
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<td>439</td>
<td>620.01-620.09, 620.1, 620.11-620.19, 620.2, 620.21-620.29, 620.3, 620.31-620.34</td>
<td>2833</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

The following classes are also impacted by this order.

Classes: 337, 361, and 362

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES;

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES;

C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE;

D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS.
CLASSIFICATION ORDER 1855
MAY 2, 2006

Project Leader: James W. Cranson, Jr.
Examiner: Neil Abrams
Editor: David Delzingaro
Editorial Assistant: Yvonne Smith

A. CLASSIFICATION MANUAL CHANGES

Additional and modified subclasses
INTERRELATED CONNECTORS RELATIVELY MOVABLE DURING USE
And antivibration mounting
With means to apply lubricant or coolant
With storage means for flaccid conductor
Having liquid contact
Universal movement
Having "nonsolid" contact, e.g., fibrous or pelletized bed
Parts comprising ball and socket
One part having flexible contact fingers
Compound movement, e.g., rotary + linear
Movement about axis
Including stacked plates used as conductor
Rotary movement
... Between cable and screw-type contact shell
Part comprising hand wheel, e.g., steering wheel
Part comprising vehicle wheel
Including ball or roller bearing used as conductor
Including annular contact
Rolling contact
Coaxial annular contacts
Concentric
Having axially facing contact surface
Having radially outwardly facing contact surface
Three or more such contacts
Engaged by resiliently biased contact
Laterally biased finger contact
Having axially facing contact surface
Having radially outwardly facing contact surface
Including resiliently biased contact
Contact having resilient shank
... Hinge
Linear movement
Expansion joint
WITH VEHICLE STRUCTURE
Connection to towed vehicle
Connection to lamp
WITH WEARING APPAREL
WITH MAGNET
To urge mating connectors together
To urge connector to supporting surface
WITH VACUUM APPLYING MEANS, E.G., SUCTION CUP
To urge mating connectors or contacts together
WITH SELECTABLE CIRCUIT, E.G., PLUG BOARD
Planar circuit overlying a second planar circuit, both adapted to be electrically connected
... Connected by transversely inserted pin

... Pin having selection feature
... Panel member having planar surface for supporting circuit and parallel surface for supporting second circuit
... Linear conductors of first surface; linear, normally disposed, conductors in second circuit
Including three or more contacts adapted to be selectively interconnected
Panel having planar contact array with mating panel having mating planar contact array
Mounted for controlled movement with respect thereto
Coupling part including repositionable contact
Coupling part with selectably oriented mating part
Test panel
PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB, ICM, DIP, CHIP, WAFER, ETC.
Connection to lamp or electron tube
Moveable about its axis
Electron tube moved perpendicularly to panel circuit
With mating connector which receives panel circuit edge
Contacts at different distances from lead panel circuit edge
Receives plural panel circuit edges
Panel mounted connector which receives edge of panel circuit
For receiving coaxial connector
With guide for directing panel circuit movement
With provision to conduct electricity from panel circuit to another panel circuit
Conductor is compressible and to be sandwiched between panel circuits
Flexible panel
Micro panel circuit arrangement, e.g., ICM, DIP, chip, wafer, etc.
Overlying second, consetutive micro panel circuit arrangement
Dual inline package (DIP)
Leadless
Contacts extending parallel with DIP at contact surface
...... With external, contact enhancing clamp
...... Overlying second preformed panel circuit, both adapted to be electrically connected
...... Connected by transversely inserted pin
...... Within distinct housing spaced from panel circuit arrangement

# Title Change
* Newly Established Subclass

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CLASS 439 ELECTRICAL CONNECTORS

PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB, ICM, DIP, CHIP, WAFER, BYTC.
Within distinct housing spaced from panel circuit arrangement
. Automotive junction box
. Flexible panel
. Distinct contact secured to panel circuit
. Panel circuit adapted to move along panel plane relative to coupling part for insertion of male contact
. Resilient contact or to receive resilient contact
. Resilient contact or to receive resilient contact
. In or for use in panel circuit aperture
. Contact soldered to panel circuit
. Contact secured to panel circuit by deformation
. Of layers of insulation INCLUDING ELASTOMERIC OR NONMETALLIC CONDUCTIVE PORTION
. Rigid carbon conductive member
. Inductive shielding or arc suppressing means
. Sealing with coupled connector
. Between parallel conductors
. Adapted to be sandwiched between preformed panel circuit arrangements WITH CIRCUIT CONDUCTORS AND SAFETY GROUNDING PROVISION
. And means to block access to power contact surface
. Uninterrupted support rail or contact, or for interfitting with uninterrupted support rail or contact
. Grounding to connector container or housing
. Pliable conductor for making grounding connection of connector to container
. By means of connector mounting screw
. Grounding to conductive sheath of cable
. Portion of connector beneath conductive sheath
. Grounding to pipe, rod or conduit
. Direct grounding of coupling part member passing into aperture
. Prong having locking provision, e.g., bayonet
. Movable or removable ground prong
. Pivotable or rotatable about transverse axis
. Adapter
. Three-prong coupling part including ground prong, or receptacle
. Duplex receptacle
. Grounding of coupling part INTERMEDIATE MEMBER BETWEEN PRONG AND ENCOMPASSING PLANAR GROUND UNINTERRUPTED SUPPORT RAIL OR UNINTERRUPTED CONTACT

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奥巴. Arcuate, bendable or pliant rail or contact
. Circular rail or contact
. With access restricting cover
. Bus duct
. With means to join tandem rails or tandem contacts
. With coupling movement-actuating means or retaining means in addition to contact of coupling part
. Uninterrupted contact accessible by mating contact moving in a first, then a lateral direction
. Bayonet coupling part movable about axis
. With mating part having mating connector portion and another connector portion electrically connected thereto, e.g., adapter
. Molding type; e.g., baseboard FOR INTERFITTING WITH UNINTERRUPTED SUPPORT RAIL OR UNINTERRUPTED CONTACT
. Coupling part with actuating means urging contact surface to move with respect to rest of connector and toward mating contact
CANDLE SIMULATION TYPE
. Adapter
. HAVING SPARK OR GLOW PLUG COVER
. Inductive shielding; e.g., radio disturbance
. With distinct securing means
. Having removable closure
. MAGNETO POST TYPE
MULTICONTACT INTERNAL COMBUSTION ENGINE DISTRIBUTOR CAP OR MULTICONTACT MATING PART
. Connector movable between accessible and inaccessible positions
. With fluid pressure operating or control means
. WITH UNAUTHORIZED CONNECTION PREVENTER, E.G., KEY OR COMBINATION LOCK
. Prong cover
. WITH CONTACT PREVENTER OR RETRACTABLE COVER PART
. Movable mounted
. Moved by mating connector
. Moved about an axis
. ...Connector moved rectilinearly for engagement, preventer or cover moved about axis parallel to direction of connector movement
. ...Connector moved rectilinearly for engagement, preventer or cover moved rectilinearly and parallel thereto
. Retractable sheath
. Movable about axis
. ...To misalign aperture with contact
. ...With connector retaining means in addition to contact of connector

# Title Change
& Indent Change
* Newly Established Subclass
& Position Change
182 Contact prevention or retractable cover part
183 Movable to misalign aperture with contact
184 Adapted to fit between contacts of first and second coupled connectors (e.g., power measuring meter)
185 With connector retaining means in addition to contact of connector
186 Dummy connector
187 Dummy cover
188 Protector for electron tube pin
189 Coupling part combined with means to allow repositioning of mating part for engagement with different contacts on mating part; e.g., flash cube
190 With coupling separator
191 Including retainer or joiner
192 Destructible retainer
193 Distinct from separator
194 Coaxial contacts, center one comprising separator, e.g., photo flash
195 Integral retainer and cam separator
196 Means to utilize direct fluid action
197 Nonconducting pusher
198 Including handle for direct manual urge to separate
199 Heat responsive contact pressure control
200 With relatively guided members and intermediate pliable conductor
201 Frangible pliable conductor; e.g., umbilical break-away
202 Relatively movable about axis
203 Convertible by internal change to selectively cooperate with a different contact
204 Connector for power measuring meter
205 Lamp or electron tube socket or base
206 Test probe
207 Coupling part
208 Including repositionable contact
209 To nonuse or distinct use (e.g., male/female) position
210 To fit differently oriented contact
211 Including repositionable contact
212 To fit different size contact
213 Female coupling part convertible to male coupling part by addition of prong
214 Coupling part convertible to distinct shape by addition of nonremovable element or by removal of non removable element
215 FLUENT CONDUCTING MATERIAL
216 Liquid
217 CONTACT SEPARATION BY SNAP OR QUICK-BREAK ACTION
218 INCLUDING ARC SUPPRESSING OR EXTINGUISHING MEANS
219 Lamp or electron tube socket
220 By arc suppressing or extinguishing environment

# Title Change
* Newly Established Subclass
ALTERNATIVELY CONNECTED
To receive contact from first direction
or from second axially distinct
direction
CONTACT TAP BETWEEN NORMALLY ENGAGED
COUPLING PARTS
COUPLING PART TO RECEIVE FLUORESCENT OR
NEON LAMP
Having curved tubular envelope
Plural lamps
Circular lamp
With sealing element or material for
cooperation with coupled lamp
With contact for starting switch
With additional retaining or locking
means for coupled connector and lamp
Removable
Adjustably mounted
Plural lamps
Adapter
Separately biased connector
Pivoting connector
With provision for transverse receipt
of lamp contact
By rotation of lamp about axis
Contact comprising laterally
resilient spring finger
Axially biased contact
Coil spring with provision to utilize
conductivity thereof
COUPLING PART HAVING HELICALLY DISPOSED
GYRATING CONTACT
SELF ALIGNING CONTACT
Contact mounted in floating
nonconductive holder
Connector including housing or panel
to support holder
Receptacle having two directly opposed
contact arms and open sides between
arms
To receive fuse
To receive rigid bar type connector,
e.g., busbar
Tubular socket
SCREW COUPLING PART ENGAGED OR
DISENGAGED WITHOUT ROTARY MOTION
Having radially movable thread means
By axially moving wedge or cam
Biased toward mating thread
...Socket
COUPLING PART WITH LATCHING MEANS AND
TETHER OR EXPLOSIVE TO UNLATCH FROM
MATING PART
COUPLING PART WITH ACTUATING MEANS
URGING CONTACT TO MOVE LATERALLY WITH
RESPECT TO REST OF COUPLING PART AND
TOWARD MATING PART
Having open slot for receiving
preformed panel circuit arrangement
or tape cable
Pivoting means, one portion actuating
contact surface, another portion
retaining coupling part

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Urging stacked contacts to move with
respect to rest of coupling part
Contractile receptacle
For dual inline coupling part, e.g.,
DIP
Expandable contact or spreadable
contacts
COUPLING PART HAVING HANDLE OR MEANS TO
MOVE CONTACT LATERALLY TO PERMIT
UNCOUPLING
Having open slot for receiving panel
circuit arrangement
Expandable, prong receiving socket
To move contact with respect to similar
contact
Comprising laterally movable prong or
socket attached to flaccid conductor
Movable latching prong or latch on
prong
WITH SEALING ELEMENT OR MATERIAL FOR
COOPERATION WITH COUPLED CONNECTOR, e.g.,
GAShET
Sealing element having cross section
that is neither circular nor
rectangular
Tapered cross-section
Combined with distinct cable sheath
sealing element or material
Combined with distinct cable sheath
sealing element or material
Including chamber for contact potting
With helically threaded coupling
movement-actuating means or
retaining means in addition to
contact of coupling part
HAVING RESILIENT HOUSING FOR SEALING
WITH COUPLED CONNECTOR
Combined with distinct cable sheath
sealing element or material
Connector comprising lamp or electron
tube socket or base
Having interengageable sealing
extension
Housing comprising resilient latching
means
COUPLING CONNECTOR TO SEALINGLY FIT WITH
FIRST CONNECTOR
ADAPTED TO COOPERATE WITH DUPLICATE
CONNECTOR
Sequentially connected contacts, e.g.,
zipper type
Engaged by axial and pivotal movements
(e.g., bayonet)
Engaged by lateral movement
Pivotal
Butt coupling
Contact intermeshable with duplicate
mating contact

# Title Change
* Newly Established Subclass
& Indent Change
& Position Change
ADAPTED TO COOPERATE WITH DUPLICATE CONNECTOR

Contact intermeshable with duplicate mating contact

With coupling movement retaining means in addition to contact of coupling part

Resilient

With relatively rotatable movement-actuating or retaining ring

Resiliently biased contact

WITH COUPLING MOVEMENT-ACTUATING MEANS OR RETAINING MEANS IN ADDITION TO CONTACT OF COUPLING PART

With guiding means for removable automobile radio or record player

Including resilient latching retaining means

With coupling part retained in connection with mating part by presence of distinct coupling part

Adapter

Retaining means requiring destruction of element before separation

Threaded coupling part

...Requiring destruction of lamp envelope

Including lock for retaining means (e.g., key or combination lock or requiring "special" tool)

Magnetically operated latch

Threaded coupling part

...Having freely rotatable component to prevent unthreading

...Retaining means entirely exterior of coupling part

...Retaining means comprising part of female coupling part

...Retaining means with distinct movement-actuating means to move coupling part axially

...For bayonet (breech) type locking ring

Coupling part with relatively pivotable concentric movement-actuating or retaining ring

...Coupling part having appurtenant means for supporting other structure

...Retaining bayonet

...Having bayonet indicating indicia or signal

...Bayonet lug on axially extending finger

...With means to move ring

...With means to prevent bayonet release

...With spring to longitudinally bias movement-actuating or retaining ring

Threaded ring or ring adapted to engage threaded mating part

...With means to prevent unthreading

...Coupling part having concentric contacts

...Adapter

Male contact pin with blockable retaining means at tip, e.g., Modrey

Coupling part for receiving edge of planar board moving parallel to plane

...With angular mating

...Retaining means exterior of slot

...Fingerlike grasping means comprising portion of coupling part

...For direct connection to a flexible tape or printed circuit board

...For dual inline package (DIP)

...Movement-actuating or retaining means comprises cover press

...Bayonet coupling part movable about its axis

...With distinct means to secure movement-actuating or retaining means against movement

...Coupling part including appurtenant means for supporting other structure

...Comprising cylindrical shell having lug receiving slot

...Lamp or electron tube socket

...Having axially extending bayonet contact

...Including movement of coupling part about axis

...Threaded coupling part

...With socket contact transversely engaging male threaded part

Pivotal movement

...Including compound movement of coupling part

...Including appurtenant means for supporting other structure

...Having push-pull contacts spaced along only one planar side wall transverse to longitudinal engagement axis (e.g., telephone jack or plug)

...Retaining means

...Adapted to engage contact of mating part

...Laterally moving slide

...Laterally moving roller or ball

...Toroidal band urged radially of connection or adapted to be compressed for retention, e.g., O-ring

...Finger or stretchable sleeve resiliently urged laterally of connection

...Coupling part having appurtenant means for supporting other structure

...With additional means to cause or prevent unlatching

...Finger inwardly biased during coupling or uncoupling

...Rearwardly extending finger

...Plural independent coupling parts

...Coupling part comprising lamp or electron tube socket

...Resilient finger

...With graspable portion
WITH COUPLING MOVEMENT-ACTUATING MEANS OR RETAINING MEANS IN ADDITION TO CONTACT OF COUPLING PART

359 Retaining means
360 .. Retaining means comprising helically threaded member
361 .. For lamp or electron tube
362 .. Including appurtenant means for supporting other structure
363 .. Parallel to connection
364 .. For retaining tubular conductor in electrical contact
365 .. Passing centrally through coupling part
366 .. Adapter
367 .. Retaining functioning electrical component (e.g., tube, lamp, fuse, battery, etc.)
368 .. Protective enclosure
369 .. Single means retaining plural distinct coupling parts and mating parts together
370 .. For unsupported coupling part and unsupported mating part, (e.g., connecting extension cords)
371 .. Resiliently urging coupling part and mating part together
372 .. Pliable band, conductor sheath engaging means, or adhesive
373 .. Flexible means to cut off excess end of conductor
374 .. Retaining means comprising single conductive member having plural slots formed by three or more fingers for connecting plural conductors
375 .. Lamp or electron tube socket or base
376 .. For constrained pivotal or plural movement coupling
377 .. For guiding side of movable panel, e.g., circuit board
378 .. Rodlike guide member extending in coupling direction or tubular passage for receiving rodlike guide member
379 .. With plural contacts circularly disposed about guide opening or rodlike member, e.g., electron tube base
380 .. Tubular passage receives contact
381 .. Bare contact
382 .. Including vibration cushioning or absorbing means
383 .. Adapted to fit between opposing faces of mated connectors
384 .. For supporting connector
385 .. By gripping mating connector
386 .. With commoning means for return ground
387 .. Contact comprising cutter (severing, piercing, abrading, scraping, breaking or tearing)
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

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392 With means to cut off excess end of conductor
393 Cutter piercing insulation parallel to conductor axis
394 Coaxial cable
395 Having slot edge for cutting insulation
396 With additional diverse sharp cutting edge
397 Contact engages conductor in at least two locations spaced along conductor axis
398 .. Conductor engaging slot extends through bight of contact
399 .. With stress relieving means for conductor to terminal joint
400 .. With distinct surface holding conductor in slot
401 Contact engages conductor at axial location and engages insulation at second axial location to relieve stress at conductor to terminal joint
402 Single conductive member having plural slots formed by three or more fingers for connecting plural conductors
403 From different margins of contact
404 .. .. Plural contacts, each formed by slot between pair of fingers
405 .. Longitudinally and laterally staggered contacts
406 Contact is portion of elongated channel
407 With stress relieving means for conductor to terminal joint
408 More than one conductor in same slot
409 .. Pivoting cutter, pivoting means to operate cutter, or pivoting means to move conductor against cutter
410 Pivoting cutter
411 .. Comprising screw, screw operated cutter, or screw means to move conductor against cutter
412 .. Screw means to move conductor against cutter
413 .. Single element cutting and connecting plural conductors
414 Lamp or electron tube socket or base
415 Screw threads pierce insulation
416 .. Piercing means comprising end of screw
417 .. Rectilinearly moving operator
418 .. Contact member cutting to contact first conductor and contacting second conductor
419 Lamp or electron tube socket or base
420 .. Flexibly tensioned strap
421 .. Crimped
CLASS 439 ELECTRICAL CONNECTORS

CONTACT COMPRISING CUTTER (SEVERING, PIERCING, ABRADING, SCRAPING, BREAKING OR TEARING)

... Insulation cutter... Conductor sheath piercing... Crimped

... For use with tape cable... Cutting by peripheral end of sheath encircling crimped contact... Cutting by stamped out tooth of sheath encircling crimped contact

... Nail like cutter... Passing through insulation to make contact

... Axially penetrating the elongated conductor... Comprising screw or screw operated means

... Screw threads engage conductor... Contact permanently secured to a conductor, e.g., crimped, soldered, etc.

... Comprising screw, screw operated cutter, or screw means to move conductor against cutter... Screw operated pivoted cutter

... Annular cutter... U-shaped clamp

... Resiliently biased... Finger

... Resilient finger... Plural fingers... Spaced along longitudinal axis of engagement... Adapted to grip upon withdrawal of mating part

... Crimped... Having slot edge for cutting... Piercing into support structure

WITH OR HAVING FLEXIBLE GUARD OR SUPPORT FOR CABLE OR CONDUCTOR

... Pivotal... Resilient... Coil spring concentric with cable or conductor

WITH STRESS RELIEVING MEANS FOR CONDUCTOR TO TERMINAL JOINT

... Drop cord attaching means, e.g., block or rosette... Including provision to attach tether... Including provision to attach to stress bearing portion of conductor

... Enlargement engaging means... Including longitudinally threaded connector part to effect gripping of enlargement

... Distinct cable attached enlargement means... Curved conductor path... Means comprising notched or apertured body

... Plate-like body... Conductor clamping and shaping

Conductor gripped by or entirely within connector housing... Including longitudinally threaded connector part to effect gripping of conductor... Distinct clamp actuated by threaded connector part

Eccentric gripping means... By pliant, conductor encircling strap... Longitudinally divided connector housing grips conductor... With additional contacts comprising coupling part mating along axis normal to conductor

... Hinged connector housing parts... With additional contacts comprising coupling part mating along axis normal to conductor... Transverse conductor gripping screw, or with means to transversely move conductor gripping means

Conductor gripped outside connector housing by distinct clamp... By pliant conductor encircling strap... With means to transversely move conductor gripping means... With additional contacts comprising coupling part mating along axis normal to conductor

INCLUDING OVERSTRESS PREVENTING MEANS... Frangible element... Including handle or distinct manipulating means

For attachment of connector to overhead conductor... With conductor inside handle or manipulating means... Including handle operated screw to effect gripping of overhead conductor... Distinct manipulating means; e.g., hot stick... Randomly manipulated implement... Test probe... Coupling part... Including bale or loop

WITH PROVISION TO DISSIPATE, REMOVE, OR BLOCK THE FLOW OF HEAT... Tube clamp... Distinct heat sink... With indicating or identifying provision... Connection indicating provision... Indicator light... Distinct indicia bearing member

INCLUDING OR FOR USE WITH TAPE CABLE... For connection to rigid preformed panel circuit arrangement, e.g., PCB... Single cable end into dual rows of contacts... With mating connection region formed by bared cable

* Newly Established Subclass

# Title Change

0 Indent Change

& Position Change
INCLUDING OR FOR USE WITH TAPE CABLE
. With mating connection region formed by bared cable
496 . Bared cable wrapped into U-shape about insertion projection
497 . With shield, ground conductor or ground commoning means
498 . Plural cables to multicontact connector or single cable branching to plural connectors
499 . Including connector housing surrounding cable
500 . ENERGY CELL SUBSTITUTION DEVICE
INCLUDING PLURAL CONTACTS (E.G., JUMPER) OR WITH SUPPORT MEANS FOR ENERGY CELL
501 . WITH STORAGE MEANS FOR FLACCID CONDUCTOR
502 . WITH FLACCID CONDUCTOR AND WITH ADDITIONAL CONNECTOR SPACED THEREALONG
503 . Adapted to interconnect vehicles
504 . Adapted to connect to a battery
505 . And with third connector spaced therealong
506 . Connector comprising pivoted spring biased clamp
507 . JUMPER (OR SHORT CIRCUITING COUPLING PART)
508 . Adapted to be used with power measuring meter
509 . Coupling part comprising short circuiting cover or manipulatable supporting means
510 . To bridge post-type contacts
511 . Including plural prongs
512 . Including plural female contacts
513 . Having spring biased contact
514 . Parallel or supplemental nonshielded path
515 . PARALLEL OR SUPPLEMENTAL NONSHEilded PATH
516 . WITH PROVISION TO ISOLATE CIRCUITRY BY SEVERANCE OF BRIDGING ELEMENT
517 . POWER MEASURING METER COUPLING PART
518 . COUPLING PART CONVERTIBLE TO DIFFERENT FORM BY SUBSTITUTION OF DIFFERENT CONTACT
519 . WITH PROVISION TO RESTRICT ENVIRONMENT EFFECTS
520 . Sacrificial material
521 . Including contact cover or case
522 . Connector comprising or mating with tapered post, e.g., storage battery terminal
523 . Having elastic or heat shrunk cable grip
524 . CORROSION RESISTANT CONDUCTING MATERIAL OTHER THAN LEAD
525 . FOR DUAL IN LINE PACKAGE (DIP)
526 . ALIGNING MEANS FOR DUAL IN LINE PACKAGE (DIP)
527 . WITH SUPPORTING MEANS FOR COUPLING PART
528 . Nonuse covering means, e.g., connector storage means
529 . And including appurtenant means for supporting other structure

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. And including electrical contact for load bearing
. Flexible suspension means, e.g., chain or strand
. Interfitting with channel or double rail
. Also supporting mating part
. Universally or pivotally adjustable supporting elements
. Outlet box
. Supporting means comprising face plate or closure member for outlet box
. For ceiling box
. Outlet receptacle mounting flange
. Yoke
. Supporting plural, independent coupling parts
. Plural lamp or electron tube sockets
. Stacked right-angle connector for use on printed circuit board (i.e., PCB)
. Elongated member supporting connector at its extremity or member for interfitting with such an elongated member
. Threaded shaft or tube
. Coupling part or mating part extending into panel opening
. With securing by movement of coupling part in plane of panel
. Movement about connective axis; e.g., bayonet
. To preformed panel circuit arrangement
. With sealing to panel
. Resilient gripping of panel
. With opening encircling retaining collar
. Concentrically screw threaded collar
. Including resilient securing
. By resilient member on panel
. Panel circuit arrangement
. With means to deform or lock resilient means
. With sealing to panel
. Lateral flexed finger on coupling part
. Including lamp or electron tube socket
. With sealing to panel
. Coupling part secured to panel by stressing beyond elastic limit
. By stressing panel beyond elastic limit
. Coupling part including panel engaging shoulder
. Comprising detachable or adjustable flange
. Directly attached to panel by elongated fastener in tension (e.g., rivet, bolt or screw)
WITH SUPPORTING MEANS FOR COUPLING PART

. Coupling part or mating part extending into panel opening
  . Coupling part including panel engaging shoulder
    ... With opposed, cooperating panel engaging member
    ... For permanent attachment to panel, e.g., by welding
    . Having resilient means engaging panel opening
  . Coupling part supported by randomly manipulated appliance (e.g., electric iron)
    . Flange on coupling part
    . Plural detachable flanges
    . Comprising or for use with supporting means
      . Conductor extending into panel opening
      . Directly attached to panel by elongated fastener in tension (e.g., rivet, bolt or screw)
    . Means to clamp
    . Resilient clamp
    . To be engaged by suspension means

COMBINED WITH NON-ELECTRICAL FEATURE

INCLUDING OR FOR USE WITH COAXIAL CABLE

. Having means for interconnecting outer conductors of three or more cables
  . For cable having three or more coaxial conductors
  . Adapted to join cable conductors to different type conductors (e.g., to PCB conductors)
  . Adapted to secure cables perpendicular to one another or a cable perpendicular to coupling axis
  . Having screw-threaded or screw-thread operated cable grip
  . With radially compressible cable grip
  . Having crimpable metallic cable conductor grip

COUPLING PART INCLUDING FLEXING INSULATION

. Sealing
  . Resilient, coupling part encircling jacket
  . Within rigid coupling part shell
  . Storage strip for a plurality of coupling parts
  . Coupling part for use between duplicate coupling parts (e.g., sandwiched between printed circuit boards)
  . Insulation distorted by or to effect coupling action
  . Receptacle adapted to bias contact and cause indirect gripping of mating contact
  . Resiliently interlocking coupling part with adjacent modular coupling part
  . Hinged or flexed detent on insulation engaging to secure contact within coupling part housing
  . Coupling part housing hinged for coupling part assembly

. Having plural, laterally spaced, prongs or prong sockets
  . Coupling part including shell and assembly of contact and contact supporting insulator
  . And multiple insulating components
  . Having laterally spaced prongs
  ... Folded prongs
  . Lamp or electron tube socket or base
  . Retaining contact within distinct coupling part housing
  . With external conductor or cable embedded in insulating sealing material
    . Lamp or electron tube socket or base
    . Molded connector body

HAVING OR PROVIDING INDUCTIVE OR CAPACITIVE SHIELD

. Conductive shielding material individually surrounding or interposed between mutually insulated contacts
  . Resilient conductive means providing additional electrical path between mating outer shield members
  . Having means for electrically connecting shield of shielded cable to connector shield member
  . With vitreous-type envelope (e.g., base of lamp or vacuum tube)
    . Connector or contact secured to each end of double-ended envelope
    . Connector of the type having only concentric annular contacts or annular contact disposed concentrically about an axial contact

. Having three or more contacts (e.g., for three-way lamp)
  . Having screw-thread-coupling contact with radially compressible cable grip
  . Having bayonet-coupling contact
  . Plug having spaced, longitudinally engaging, prong-like contacts
  . Having three or more circularly arranged contacts (e.g., base of vacuum tube)

. Having only two duplicate contacts arranged bilaterally symmetric about longitudinal axis of engagement

WITH CIRCUIT COMPONENT OR COMPRISING CONNECTOR WHICH FULLY ENCLOSES CIRCUIT COMPONENT

. Lamp socket or lamp base
  . Coaxial connector
  . Termination circuit (usually with resistors)
  . Ferrite (i.e., magnetic core)
  . For connector mounted on printed circuit board (PCB)

. Having significant filtering
WITH CIRCUIT COMPONENT OR COMPRISING CONNECTOR WHICH FULLY ENCLOSES CIRCUIT COMPONENT

* 620.08 .Non-fuse excessive current preventer (e.g., varistor, PTC material or circuit breaker, etc.)

* 620.09 .Capacitive filter (i.e., filter, capacitor, diode adjacent each contact)

* 620.1 .With housing shield or metal shell

* 620.11 ...Registered jack (RJ) plug or socket

* 620.12 ...Right-angle connector

* 620.13 ...Having component (e.g., filter, capacitor, diode, etc.) integral with or fitted into contact

* 620.14 ...Planar filter with openings for contacts

* 620.15 ...Connector (e.g., plug, socket, etc.) on printed circuit board (PCB) includes or covers additional component

* 620.16 ...Right-angle connector

* 620.17 ...Registered jack (RJ) plug or socket

* 620.18 ...Housing having plural registered jack (RJ) plugs or sockets

* 620.19 ...With shield surrounding housing

* 620.2 ...Socket for dual inline package (DIP) or printed circuit board (PCB)

* 620.21 ...Connector (e.g., power plug, registered jack (RJ) plug, adapter, outlet box, etc.) with internal component (except fuse)

* 620.22 ...Component on printed circuit board (PCB) in connection housing

* 620.23 ...Registered jack (RJ) plug or socket

* 620.24 ...Small component on printed circuit board (PCB) (e.g., 2- or 3-lead component, etc.) capacitor, resistor, or piezoelectric

* 620.25 ...Socket or printed circuit board (PCB) for the small component

* 620.26 ...With or for fuse

* 620.27 ...Box with plural fuses (automobile power distribution box)

* 620.28 ...Cylindrical fuse in cylindrical holder

* 620.29 ...Comprising coupling part housing for enclosing fuse (includes outlet box or faceplate)

* 620.3 ...Fuse enclosed in plug of type having two or three prongs (i.e., standard-type plug used at wall outlets)

* 620.31 ...Plug is an adapter (includes connector for second plug

* 620.32 ...Right-angle plug (wiring at right angle to plug prongs)

* 620.33 ...Fuse with flat coplanar blades or receiver for such fuse

* 620.34 ...Fuse removably held in holder for plug-in step

623 CABLE COMPOSED OF MUTUALLY INSULATED CONDUCTORS HAVING SEPARATELY CARRIED CONDUCTOR END TERMINALS

624 PLURAL CONTACTS DISPOSED INTERMEDIATE ENDS OF CABLE HAVING SHEATH ENCLOSING
It Title
~ Newly Established Subclass

CLASS 439  ELECTRICAL CONNECTORS

WITH INSULATION OTHER THAN CONDUCTOR SHEATH

... Plural-contact coupling part
... Two or more plural-contact coupling parts combined in one integral unit
... Unit includes receptacle for receiving plug having spaced, longitudinally engaging, prong-like contacts

... Combined with plug having spaced, longitudinally engaging, prong-like contacts
... Wherein the plug is combined with a plurality of the receptacles adapted to receive spaced-prong plug

... Combined with diverse type of coupling part
... Having receptacle at each of parallel opposed surfaces or sides
... Unit includes plug having spaced, longitudinally engaging, prong-like contacts
... With common means securing plural conductors to separate contacts

... Screw-thread operated
... Having separate through-passageways for enabling securing of intermediate portion of conductors thereto

... Coupling part comprises receptacle having internal screw-thread-coupling contact
... Plural-contact coupling part comprises receptacle or plug
... Having screw-thread-coupling contact
... Screw threads formed on cylindrical or annular contact
... Screw-threaded center-contact type
... Plug having screw-thread-coupling contact and also having resilient or spring-biased center contact
... Having mutilated, irregular, interrupted, or discontinuous contact thread

... Receptacle having internal screw-thread-coupling contact
... And also having resilient or spring-biased center contact
... Having only push-pull-engaging contacts spaced along longitudinal axis of engagement (e.g., jack-type receptacle or plug)
... Plug having cylindrical or annular contacts of substantially the same diameter (e.g., jack-type plug)

... Having coupling contact requiring successive relative motions in different directions to complete the coupling
... Having bayonet-coupling contact

Bayonet-coupling contact comprises cylindrically-shaped ring or shell

... Having plural bayonet-coupling contacts
... Having annular, push-pull-engaging contact concentrically disposed about longitudinal axis of engagement
... Having push-pull-engaging contacts spaced along planar side wall transverse to longitudinal engagement axis (e.g., telephone jack or plug)

... Polarized
... By asymmetric disposition or asymmetric shape of duplicate contacts

... By having or receiving contacts of similar type which are unequal in size or shape
... By key or guideway
... User adjustable key or guideway

... Receptacle for receiving plug having spaced, longitudinally engaging, prong-like contacts

... Adapted to receive base connector of electron tube
... Receptacle body formed of thin, superposed plates or discs of insulation

... Having only three prong-receiving recesses arranged to define apices of a triangle
... Having multipart insulating body or casing

... Divided parallel to longitudinal engagement axis (e.g., formed of two casing halves)
... Formed of superposed planar sheets or plates of insulation
... Planar insulating cover overlying insulating body or casing

... Insulating parts secured together by screw-threaded means
... Having additional resilient member cooperating with contact to increase grip on contact of mating plug

... Plug having spaced, longitudinally engaging, prong-like contacts
... With insulative covering about part of protruding portion of each contact

... Having wire conductor receiving passageway extending perpendicular to longitudinal axes of contacts
... Having multipart insulating body
... Divided parallel to longitudinal engagement axis (e.g., formed of two casing halves)

... Having means other than screw-threaded means for securing wire-type conductor to contact

... Receptacle for transversely receiving elongated fuselike component having contact at each end thereof

# Title Change
* Newly Established Subclass

MAY 2006
WITH INSULATION OTHER THAN CONDUCTOR
SHAPED
.
Plural-contact coupling part
.
Plural-contact coupling part comprises receptacle or plug
Having only two duplicate contacts arranged bilaterally symmetric about longitudinal axis of engagement

Lamp-receiving socket

Having spring-biased, plunger-type contact movable along line parallel to longitudinal axis of engagement

Having modular or multipart insulating body

Insulating body comprising or for use with cylindrical cap and shell type lamp receptacle casing

Insulating lining or contact support within separable, metallic cap and shell casing

Insulating lining or contact support within metallic cap casing

Insulating lining or contact support within metallic shell casing

Separable insulating cap and shell casing

Insulating body providing direct contact or engagement of duplicate terminals or conductors

Insulating body having plural mutually insulated terminals or contacts (e.g., terminal block)

Duplicate insulating blocks or boards interconnected by frangible or severable part

With common operator for simultaneously securing separate contacts thereof to separate external contacts or conductors

Modular or multipart insulating body

Relatively movable insulating body parts

Formed of three or more thin, flat, superposed layers, plates, or sheets of insulation

Modular insulating block or board

With support track for receiving plural insulating blocks or boards

Having integral means to interlock or interfit with a duplicate insulating block or board

Having protective cover formed from insulating material

With conductor fanning means

Terminals or contacts secured by permanently bending or deforming metallic part onto insulation

Having three or more spaced, electrically interconnected, duplicate terminals or contacts

Terminals or contacts embedded in insulating body

Insulating body with spaced, electrically interconnected, duplicate terminals or contacts

Modular or multipart insulating body

Having movable insulated part for securing conductor or mating connector thereto

Clamp-type connector for storage battery post

 Screw-thread-operated securing part

With spring operating on conductive clamp portion of securing part

 Spring-operated or resilient securing part

Terminal connector having insulating tube or sleeve adapted to be crimped or heat-shrunk onto wire conductor

Insulating body divided parallel to longitudinal axis of engagement (e.g., formed of two casing halves)

Interfitting or abutting insulating bodies carried by separate mating connectors

Metallic connector or contact secured to insulation

Annular or center contact secured to lamp-type, insulating receptacle or base

Screw-threaded contact having mutilated, irregular, interrupted, or discontinuous screw thread

Secured by heat-molding or cold-deforming insulation or by casting, welding, or cementing

Secured to insulation by screw-threaded means

Insulating tube, sleeve, or cap concentrically surrounding part of connector

Including resilient or spring-biased part for securing wire-conductor or mating connector thereto

Secured to insulation by bayonet engagement

Secured by permanently bending, deforming, or crimping metallic part

Having separate bendable or deformable securing part (e.g., rivet)

Resilient or spring-biased socket contact or connector

Secured by resiliently biased part latching behind shoulder or into recess

Separate latching part secured to contact prior to engagement with insulation

Latching part unitary with metallic connector or contact

Coupling part type contact inserted into insulation from coupling end
WITH INSULATION OTHER THAN CONDUCTOR SHEATH

- Metallic connector or contact secured to insulation
- Secured by resiliently biased part latching behind shoulder or into recess
- Latching part unitary with metallic connector or contact

748   - Resilient socket contact for surrounding or engaging opposed surfaces of mating plug contact
749   - Adapted to have secured wire conductor extending transverse to longitudinal coupling axis
750   - Insulating tube, sleeve, or cap concentrically surrounding part of connector

751   - Secured by part resiliently gripping insulation
752   - With superposition of insulating body parts
752.5 - With guiding means for inserted contact

753   - CYLINDRICAL METALLIC CAP AND SHELL TYPE LAMP RECEPTACLE CASING
754   - METALLIC CLAMP-TYPE CONNECTOR FOR STORAGE BATTERY TERMINAL
755   - For threaded-receptacle type terminal flush with battery wall (e.g., for side terminal type battery)
756   - Common securing means for post and conductor

757   - With clamp-to-post joint separator
758   - Clamp secured to and separated from post by same screw-threaded member
759   - Spring-actuated or resilient clamp
760   - With reinforcing insert
761   - Deformable C- or U-clamp
762   - Screw-thread operated
763   - With plural conductor terminals
764   - With means for removably securing conductor thereto
765   - Screw-thread operated
766   - Screw or nut coaxial with post
767   - Post between and transverse of plural screws

768   - Rye bolt type
769   - Clamping lever
770   - Clamping cam or wedge
771   - Screw axis intersects post axis (e.g., set screw)
772   - Clamping lever, cam, or wedge
773   - Rotary or swinging cam
774   - Sliding wedge

775   - METALLIC CONNECTOR OR CONTACT HAVING MOBILE OR RESILIENT SECURING PART
776   - Stirrup type for simultaneously securing two spaced-apart locations along the length of a conductor thereto
777   - Adjustable angular joint between separate connectors or conductor securing means

# Title Change
* Newly Established Subclass

# Indent Change
& Position Change

MAY 2006

439-13

Externally threaded, bifurcated bolt for joining conductors having like cross-sectional shape

With nut retainer

With slideable conductive element between conductors

Bolt or screw between and transverse of parallel conductors

With means to maintain assembly of clamp part and bolt or screw

Cam or wedge between conductors

Screw-threaded securing means coaxial with elongated conductors joined in axially aligned relationship

Parallel elongated conductors between and transverse of plural screws (e.g., U-bolt)

Resilient or spring-operated securing means joining plural conductors

Conductors secured in duplicate receiving means

With helical spring

Hinged jaw type having alignable conductor receiving bores

Single operator for securing and joining plural conductors

Single screw-threaded operator

Conductors secured in direct contact with one another

Screw axis intersects axes of conductors joined parallel to one another

Conductors secured in duplicate receiving means

Screw-threaded operator circumferentially tensions flexible strap or band

Duplicate receiving means having independently operated securing means for joining plural conductors

Screw-thread operated securing means for each receiving means

For joining three or more conductors

Circumferentially tensioned flexible strap or band

Tensioning screw interacts longitudinal axis of encircled conductor

Screw-thread operated securing part

Screw-threaded lamp-shell type contact having resilient or spring biased securing part

C-clamp type

Single conductor between and transverse of plural screws (e.g., U-bolt)

Nut, bolt, or screw coaxial with elongated conductor

Clamping lever

With screw-thread operated cam or wedge

With strand coiling or loop forming means
METALLIC CONNECTOR OR CONTACT HAVING
MOBILE OR RESILIENT SECURING PART
.Screw-thread operated securing part
With means confining strand or wire
loop about screw
.Screw axis intersects conductor axis
(e.g., set screw)
...With movable clamp jaw between
conductor and screw or nut (e.g.,
sildable follower)
.Clamp jaw movably secured to screw
or nut
...Captive screw or nut
...Screw or nut moves resilient or
resiliently biased securing part
Spring actuated or resilient securing part
.Compression spring axis transverse of
and intersecting conductor axis
...Spring biases detent member to form
snap-latch type securing part
.Separate spring means moves rigid
nonresilient clamping part into
securing condition
...Spring biases slidable wedge-shaped
or wedge-operated jaw
.Socket connector having three or more
annularly arranged duplicate grip
elements
...Hinged clamping part (i.e., clamping
lever)
...Socket or pin connector having small
radially biased clamping or
detenting element
...Spring-biased butt contact
...Plug having means for resiliently
engaging opposite interior surfaces
of mating socket connector (e.g.,
banana plug)
...Also having means for resiliently
engaging exterior surfaces of the
socket connector
.Having separate resilient means
extending externally around or
outwardly through rigid plug body
.Having resilient clamping finger
crossing plane of opposed clamping
member while in clamping condition
.Hand-grip type
...For receiving end contact of elongated
fuselike component inserted
transverse to longitudinal axis of
component (e.g., fuse clip)
...With contact rejection feature or
adaptor
...With movably attached user
manipulated locking, contact
retaining, or spring spreading
means
...With separate means to increase
clamping pressure of spring clip
.Clamping pressure provided by
cantilevered finger resiliently
urged away from opposed clamping
member

835 With movably attached user manipulated
means or having user grippable
means for manually distorting
resilient part
836 Slidably mounted cam or wedge locks
or places resilient securing part
into securing condition
837 ...With additional spring means to
operate slidable cam or wedge
838 ...Pivoting or rotatably mounted member
locks or places securing part into
securing condition
839 With additional reinforcing spring
means
840 Helically coiled spring forms securing
part
841 ...Adapted to receive elongated contact
or conductor by insertion along
axis passing through spring coils
842 ...Socket adapted to receive
push-pull-engaging elongated
contact by insertion along
longitudinal axis of contact
843 ... Having separate gripping spring means
located within or extending into
rigid socket body
844 ...Adapted to be mounted to flat panel
with longitudinal axis of socket
perpendicular to plane of panel
845 ...Adapted to receive thin blade
contact (e.g., spade receiving)
846 ...Separate spring means forms
snap-latching detent
847 ...Spring means mounted on exterior of
and extends into rigid socket
body
848 ...Having latching detent or means
operated by mating contact to lock
or manipulate resilient part
849 ...Adapted to receive thin blade
contact (e.g., spade receiving)
850 ...Resilient channel-like socket for
receiving thin blade contact
(e.g., spade receiving)
851 ...Socket comprises tubular body having
resilient means for gripping
inserted elongated contact
(includes split or slotted tube)
...Having resilient cantilevered
clamping finger located within
tubular body
852 ...With means for mounting to flat
panel
...Tubular socket perpendicular to
wire-securing barrel (e.g.,
right-angle connector)
853 ...Socket perpendicular to wire-securing
barrel (e.g., right-angle
connector
METALLIC CONNECTOR OR CONTACT HAVING
MOVABLE OR RESILIENT SECURING PART
881 .Spring actuated or resilient securing part
882 .Socket adapted to receive push-pull-engaging elongated contact by insertion along longitudinal axis of contact
883 ...Having opposed cantilevered clamping fingers resiliently urged toward one another
884 ...Allochiral cantilevered clamping fingers
885 ...Having cantilevered clamping finger resiliently urged toward rigid clamping jaw
886 .Adapted to resiliently engage end face and inner annular shoulder of headed terminal
887 .Comprising conductor-encircling resilient wire loop or comprising slotted or apertured resilient plate
888 .Having cantilevered clamping finger resiliently urged toward opposed clamping jaw
889 .Having cantilevered spring contact finger
890 .Clamping cam or wedge
891 .Rotary or swinging METALLIC CONDUCTOR TERMINAL HAVING CONDUCTOR SHEATH ENGAGING MEANS
892 .Pin or plug type terminal
893 .Resilient or spring-biased socket or clip type terminal
894 .Slotted or apertured disc or plate type terminal (e.g., ring terminal)
895 METALLIC CONNECTOR OR CONTACT HAVING MEANS FOR SECURING TO INSULATION OTHER THAN CONDUCTOR SHEATH
896 .Adapted to be secured by permanently bending or deforming metallic part
897 .Adapted to be secured by resiliently biased part latching behind shoulder
898 ...Latching part unitary with metallic connector or contact
899 .Adapted to be secured by part resiliently gripping insulation
900 METALLIC CONNECTOR OR CONTACT HAVING PART PERMANENTLY SECURED TO CONDUCTOR USING FUSED OR MOLDED MATERIAL
901 .Having duplicate locations for permanently securing individual conductors thereto
902 .Adapted to be secured to conductor formed on printed circuit board
903 METALLIC CONNECTOR OR CONTACT ALSO HAVING SECURING PART ADAPTED TO BE CRIMPED, DEFORMED, OR BENT ONTO CONDUCTOR
904 .Securing part crimped or bent onto looped end of wire conductor
905 .Multpart assembly
906 .Having duplicate receiving means for permanently securing individual conductors thereto

<table>
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<tr>
<th># Title Change</th>
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MAY 2006

CLASS 439 ELECTRICAL CONNECTORS

MAY 2006

MISCELLANEOUS
********************************************
CROSS-REFERENCE ART COLLECTIONS
********************************************
CONNECTOR HOOD OR SHELL
********************************************
Connector hood or shell - Angularly disposed contact and conductor
-----------------------------------------------
Special latch for insert
-----------------------------------------------
Multpart shell
-----------------------------------------------
Axially joined sections
-----------------------------------------------
Longitudinally divided
-----------------------------------------------
CONTACT HAVING THREE CONTACT SURFACES, INCLUDING DIVERSE SURFACE
-----------------------------------------------
CONTACT HAVING TWO CONTACT SURFACES FOR ELECTRICAL CONNECTION ON OPPOSITE SIDES OF INSULATIVE BODY
-----------------------------------------------
Medical use or attached to human body
-----------------------------------------------
Observation aide, E.G., Transparent Material, window in housing
-----------------------------------------------
Safety, E.G., Electrical disconnection required before opening housing with testing means
-----------------------------------------------
Condition determining device, E.G., Oxygen sensor, accelerometer, igniter chamber, thermocouple
-----------------------------------------------
For flashbulb or camera (including flash cube)
-----------------------------------------------
Auxiliary device for existing plug and antenna
-----------------------------------------------
Alarm circuit, E.G., Window affixed foil multilamp vehicle panel
-----------------------------------------------
For treatment by electrical current, E.G., Magnet or battery charger, heater, welder, etc.
-----------------------------------------------
For interconnecting rigid pipe like bodies, E.G., Wave guides

839-15
CLASS 439 ELECTRICAL CONNECTORS

921 TRANSFORMER BUSHING TYPE OR HIGH VOLTAGE UNDERGROUND CONNECTOR
922 TELEPHONE SWITCHBOARD PROTECTOR
923 SEPARATION OR DISCONNECTION AID
924.1 CONTACTS ARRANGED FOR SEQUENTIAL CONNECTION
924.2 With contact preventer to require joining in a given sequence
925 FLOOR MOUNTED, E.G., UNDER CARPET
926 WITHIN MACHINE CASING OR MOTOR HOUSING (CONNECTOR WITHIN CASING WALL)
927 CONDUCTIVE GASKET
928 MODULAR ELECTRICALLY INTERENGAGING PARTS, E.G., STOVE WITH REPLACEABLE HEATING ELEMENTS FORMED ON COUPLING PARTS
928.1 Plug-in carrier or adapter for removable component (e.g., "hard drive" for computer)
929 CONNECTING BASE PLATE OR SHELF TYPE HOLDER
930 COUPLING PART WHEREIN CONTACT IS COMPRISED OF A WIRE OR BRUSH
931 CONDUCTIVE COATING
932 HEAT SHRINK MATERIAL
933 SPECIAL INSULATION
934 High voltage barrier (e.g., surface arcing or corona preventing insulator)
935 Glass or ceramic contact pin holder
936 Potting material or coating (e.g., grease, insulative coating, sealant or, adhesive)
937 Plural insulators in strip form
938.1 CATHODIC PROTECTION OF STRUCTURE (E.G., SHIP HULL)
939 WITH GROUNDING TO METAL MOUNTING PANEL
940 INCLUDING PROVISION FOR MECHANICAL LIFTING OR MANIPULATION (E.G., FOR VACUUM LIFTING)
941 CROSSTALK SUPPRESSION
942 COMBLIKE RETAINER FOR CONDUCTOR
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

# Title Change
* Newly Established Subclass

MAY 2006

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 COLLECTION

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS
SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT

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## Source Classification(s) of Patents in Newly Established Subclasses Report

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C. CHANGES TO THE U.S. – I. P. C. CONCORDANCE

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D. CHANGES TO THE DEFINITIONS (Project No. E-6776)

CLASS 337 – ELECTRICITY: ELECTROHERMALLY OR THERMALLY ACTUATED SWITCHES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 28: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 182 for a lamp or electron tube socket including arc suppressing means, which means may comprise a protective air gap type discharge device; and subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse.

Subclass 186: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse; and subclass 698 for an electrical connector specially adapted to receive and support an elongated fuse-like device, e.g., a cartridge type fuse, etc., having end contacts.

Subclass 195: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.
Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse; subclass 698 for an electrical connector specially adapted and support an elongated fuse-like device having end contacts; and subclasses 830+ for a metallic connector having a resilient securing part designed specifically to receive the end contact of an elongated fuse.

Subclass 197: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse.

Subclass 198: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclasses 586+ for an electrical coupling part including flexing insulation; and subclass 620.26 for an electrical connector combined with a fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse.

Subclass 216: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.
Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse; and subclass 698 for an electrical connector specially adapted to receive and support an elongated fuse-like device, e.g., a cartridge-type fuse, etc., having end contacts.

Subclass 269: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse.

Subclass 398: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 620.26 for an electrical connector combined with a named fuse or comprising a casing, housing, or holder for receiving and fully enclosing a fuse.
CHANGES TO THE DEFINITIONS (Project No. E-6776)

CLASS 361 – ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

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+ for condenser connector having capacitive shield; and subclasses 620.01-620.34 for filter connectors.
CHANGES TO THE DEFINITIONS (Project No. E-6776)

CLASS 362 – ILLUMINATION

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 3: Under SEE OR SEARCH CLASS:

Delete:

The reference to Class 439.

Insert:

439, Electrical Connectors, subclass 151 for a coupling part connector combined with means to allow repositioning of a mating part for engagement of different contacts on the mating part, e.g., a flash cube, etc.; and subclasses 620.01-620.34 for an electrical connector combined with a named circuit component; and see the notes appended thereto.
CLASS 439 – ELECTRICAL CONNECTORS (Project No. E-6776)

Definitions Abolished:

620-622

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 612: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

The reference to subclasses 621+.

Insert:

620.26, for an electrical connector combined with a named fuse or including a housing for fully enclosing a fuse, which electrical connector may be designed to receive a cartridge-type fuse having a contact at each end thereof.

Definitions Established: (Place established subclasses in numerical sequence.):

620.01 WITH CIRCUIT COMPONENT OR COMPRISING CONNECTOR WHICH FULLY ENCLOSES CIRCUIT COMPONENT:

Subject matter under the class definition including electrical connector either (a) combined with a functioning electrical circuit device; or (b) comprising a holder, casing, or housing adapted to substantially completely surround an unclaimed functioning electrical circuit device, which holder, casing, or housing further carrying at least one contact* for electrically engaging a contact of the circuit device.

(1) Note. The following functioning electrical circuit devices are specifically excluded from this and the indented subclasses since, for the most part, they are provided for elsewhere within this class (439): energy cells or batteries (both the dry cell and storage types), spark plugs of the type designed for internal combination engines, lamps, vacuum tubes, interference filters of the type combined or used with contacts of inductively or capacitively shielded connectors, and a power measuring meter coupling part.

(2) Note. Some examples of functioning electrical circuit devices which may be included herein are: fuses, resistors (including resistive heating elements), capacitors, inductors or coils, transformers relays, switches, transistors, solid-state diodes or rectifiers, transducers (such as earphones, microphones, piezoelectric devices, photocells, etc.), and measuring or detection devices (such as meters, strain gauges, and seismometers).
SEE OR SEARCH THIS CLASS, SUBCLASS:
76.1, for housing enclosing printed circuit board.
125, for a connector having a spark or glow plug cover.
126, for inductive shielding, e.g., radio disturbance, etc.
130, for a multicontact internal combustion engine distributor cap or a multicontact mating part therefor.
500, for an energy cell substitution device including plural contacts, e.g., jumper, etc., or a connector with support means for a energy cell.
517, for a power-measuring meter coupling part.
525, for a connector for a dual-in-line package.
526, for an aligning means for a dual-in-line package.
527, for supporting means for coupling part.
607, for an interference-filter-type contact for use in providing inductive or capacitive shielding.
611, for vitreous-type envelope, e.g., base of lamp or vacuum tube, etc.
754, for a metallic clamp-type connector for a storage battery terminal.
890, for a contact terminal for a functioning electrical component.
893, for a distinct covering means for covering a functioning electrical component.

620.02 Lamp socket or lamp base:
Subject matter under subclass 620.01 wherein the connector is formed to receive a device that provides illumination or the connector is the support of a device that provides illumination.

SEE OR SEARCH THIS CLASS, SUBCLASS:
490, for an electrical connector including a lamp that functions as an indicator.
611, for lamp bases not in combination with a circuit component.

SEE OR SEARCH CLASS:
313, Electric Lamp and Discharge Devices, subclasses 318.01-318.11 with envelope and base.
315, Electric Lamp and Discharge Devices: Systems, subclasses 291-311 for current and/or voltage regulation.

620.03 Coaxial connector:
Subject matter under subclass 620.01 wherein the connector has a single centrally located contact and an annular contact surrounding the centrally located contact.

SEE OR SEARCH THIS CLASS, SUBCLASS:
578, for connector for use with coaxial cables.
675, for coaxial connectors.
620.04 Termination circuit (usually with resistors):
Subject matter under subclass 620.01 wherein the connector is used in a circuit to provide impedance at the open position, usually by including resistors in the connector.

SEE OR SEARCH CLASS:
338, Electrical Resistors, subclass 220 for detachable electrical connector.

620.05 Ferrite (i.e., magnetic core):
Subject matter under subclass 620.01 wherein the connector has magnetic properties that are used to prevent electromagnetic interference.

620.06 For connector mounted on printed circuit board (PCB):
Subject matter under subclass 620.05 wherein the connector is fixed upon and electrically joined to a printed circuit board.

620.07 Having significant filtering:
Subject matter under subclass 620.05 wherein the ferrite connector has particular filtering in addition to the ferrite material.

620.08 Non-fuse excessive current preventer (e.g., varistor, PTC material, or circuit breaker, etc.):
Subject matter under subclass 620.01 wherein the connector is intended to block current above a preset level.

(1) Note. Fuses are excluded from this subclass.

SEE OR SEARCH THIS CLASS, SUBCLASS:
181, for connectors with arc suppressing or extinguishing means.

SEE OR SEARCH CLASS:
218, High-Voltage Switches With Arc Preventing or Extinguishing Devices, subclasses 1-158 for arc preventing or extinguishing devices.
361, Electricity: Electrical Systems and Devices, subclasses 1-138 for safety systems and protection of systems and devices.

620.09 Capacitive filter (i.e., filter, capacitor, diode adjacent each contact):
Subject matter under subclass 620.01 wherein the connector blocks the flow of direct current and permits the flow of alternating current at selected frequencies.

SEE OR SEARCH CLASS:
333, Wave Transmission Lines and Networks, subclass 260 for connectors with structures or devices for modifying characteristics of a transmission line.

620.1 With housing shield or metal shell:
Subject matter under subclass 620.09 wherein the connector is formed of an insulating housing surrounded on at least two sides by metallic material that substantially covers the associated housing sides.
SEE OR SEARCH THIS CLASS, SUBCLASS:
607, for connectors having or providing inductive or capacitive shield.

620.11 Registered jack (RJ) plug or socket:
Subject matter under subclass 620.1 wherein the connector includes a rectangular opening with resilient contacts on one side and a latch engaging shoulder on the opposite interior side.

(1) Note. The term “RJ” stands for “registered jack” and is a general term for electrical connectors. Registered jacks, sometimes described as RJ-XX, are a series of telephone connection interfaces (receptacle and plug) that are registered with the U.S. Federal Communications Commission e.g., RJ-11, RJ-14, RJ-45, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:
617, for registered jack (RJ) plug or socket in a right-angle connector on a printed circuit board (PCB) that includes or covers an additional component.

620.23, for registered jack (RJ) plug or socket in a connector with an internal component.

620.12 Right-angle connector on printed circuit board (PCB):
Subject matter under subclass 620.1 wherein the connector is adapted to be mounted to a printed circuit board by having mating contacts that are parallel to the plane of the printed circuit board.

SEE OR SEARCH THIS CLASS, SUBCLASS:
620.16, for a right-angle connector on printed circuit board (PCB) including or covering an additional component.

620.13 Having component (e.g., filter, capacitor, or diode, etc.) integral with/or fitted into contact:
Subject matter under subclass 620.1 wherein the connector is directly mounted to or located within a single contact.

620.14 Planar filter with openings for contacts:
Subject matter under subclass 620.1 wherein the connector is formed as a flat member with passages for each one of the associated contacts that block certain frequencies.

620.15 Connector (e.g., plug, socket, etc.) on printed circuit board (PCB) includes or covers additional component:
Subject matter under subclass 620.01 wherein the connector is mounted onto a printed circuit board and supports or is located directly over a component, such as a resistor or a capacitor, that is supplemental to the main function of the connector.

SEE OR SEARCH THIS CLASS, SUBCLASS:
69, where one micro panel circuit (wafer) overlies another micro panel circuit.
620.16 **Right-angle connector:**
Subject matter under subclass 620.15 wherein the connector is adapted to be mounted to a printed circuit board by having mating contacts that are parallel to the plane of the printed circuit board.

SEE OR SEARCH THIS CLASS, SUBCLASS:
620.12, for a right-angle connector on printed circuit board (PCB) with housing shield or metal shell combined with capacitive filter.

620.17 **Registered jack (RJ) plug or socket:**
Subject matter under subclass 620.16 wherein the connector includes a rectangular opening with resilient contacts on one side and a latch engaging shoulder on the opposite interior side that is used in telecommunications.

SEE OR SEARCH THIS CLASS, SUBCLASS:
620.11, for registered jack (RJ) plug or socket with housing shield or metal shell and that include a capacitive filter.
620.23, for registered jack (RJ) plug or socket in a connector with an internal component.

620.18 **Housing having plural registered jack (RJ) plugs or sockets:**
Subject matter under subclass 620.17 wherein the connector has more than one registered jack (RJ) plug or socket.

SEE OR SEARCH THIS CLASS, SUBCLASS:
540.1, for supporting plural, independent coupling parts.

620.19 **With shield surrounding housing:**
Subject matter under subclass 620.17 wherein the connector is formed of an insulating housing surrounded on at least two sides by metallic material that substantially covers the associated housing walls.

620.2 **Socket for dual inline package (DIP) or printed circuit board (PCB):**
Subject matter under subclass 620.15 wherein the connector is of the receptacle type and is intended for mating with contacts on a printed circuit board to be inserted edgewise into the receptacle or with contacts of a small panel circuit of the type having straight rows of contacts, the rows located along opposite edges of the panel circuit.

SEE OR SEARCH THIS CLASS, SUBCLASS:
59, for sockets or receiving edges of printed circuit boards.
68, for sockets for DIPs, ICMs, chips, wafers, etc.
70, for dual inline package.
620.21 Connector (e.g., power plug, registered jack (RJ) plug, adapter, outlet box, etc.) with internal component (except fuse):
Subject matter under subclass 620.01 wherein the connector includes an insulative housing that supports contacts, such as prongs or sockets, etc., and the housing surrounds the added electrical component, such as a resistor or capacitor, etc., but the component cannot be a fuse.

SEE OR SEARCH THIS CLASS, SUBCLASS:
490, for connector with lamps as internal components.

SEE OR SEARCH CLASS:
336, Inductor Devices, subclass 107 for connector with inductor or coil. (Also see 336/DIG.)
338, Electrical Resistors, subclass 220 for connector housing with resistor.
363, Electric Power Conversion Systems, subclass 146 for connector with power conversion means.

620.22 Component on printed circuit board (PCB) in connection housing:
Subject matter under subclass 620.21 wherein the connector housing encloses a printed circuit board and the added electrical component is mounted on and electrically joined to the printed circuit board.

SEE OR SEARCH THIS CLASS, SUBCLASS:
76.1, for printed circuit board (PCB) in connector housing.

620.23 Registered jack (RJ) plug or socket:
Subject matter under subclass 620.21 wherein the connector includes a rectangular opening with resilient contacts on one side and a latch engaging shoulder on the opposite interior side.

(1) Note. Usually used in telecommunications.

SEE OR SEARCH THIS CLASS, SUBCLASS:
620.11, for registered jack (RJ) plug or socket with housing shield or metal shell in a capacitive filter.
620.17 for registered jack (RJ) plug or socket in a right-angle connector on printed circuit board (PCB) including or covering an additional component.

620.24 Small component on printed circuit board (PCB) (e.g., 2- or 3-lead component) capacitor, resistor, or piezoelectric, etc.:
Subject matter under subclass 620.01 wherein the connector is mounted onto a printed circuit board and includes contacts for mating engagement with contacts of an electrical component such as a resistor or capacitor.
SEE OR SEARCH THIS CLASS, SUBCLASS:

68, for micro panel circuit component on printed circuit board (PCB).
68 through 73, for connectors for receiving micro panel circuit components, such as integrated circuit modules, etc.
500, for energy cell (battery) on printed circuit board (PCB).

620.25 **Socket on printed circuit board (PCB) for the small component:**
Subject matter under subclass 620.24 wherein the connector includes at least two wall-like portions that are arranged to surround the small component when the small component is electrically joined to the connector.

620.26 **With or for fuse:**
Electrical connector under subclass 620.01 wherein the functioning electrical circuit device is an electrical safety device comprising a wire or strip of fusible metal that melts and interrupts the circuit when the current exceeds a specified amperage.

SEE OR SEARCH THIS CLASS, SUBCLASS:

698, for receptacle for transversely receiving elongated fuse-like component having contact at each end.

SEE OR SEARCH CLASS:

337, Electricity: Electrothermally or Thermally Actuated Switches, subclasses 186-216 and 227-272 for carriers or holders for fuses.

620.27 **Box with plural fuses (automobile power distribution box):**
Subject matter under subclass 620.26 wherein the connector includes two or more sets of contacts, each set of contacts arranged for receiving a separate fuse.

SEE OR SEARCH THIS CLASS, SUBCLASS:

76.2, for automotive junction box.

620.28 **Cylindrical fuse in cylindrical holder:**
Subject matter under subclass 620.26 wherein the connector is formed in a cylindrical shape and is adapted to receive a fuse having a cylindrical shape with contacts formed at each end as portions of the cylindrical body.

(1) **Note.** Excludes fuses of cylindrical shape but with contact blades at each end.

620.29 **Comprising coupling part housing for enclosing fuse (includes outlet box or faceplate):**
Electrical connector under subclass 620.26 comprising a holder, casing, or housing for supporting and surrounding the fuse component; which holder, casing, or housing also comprises a coupling part* carrying at least two mutually insulated contacts*, the coupling part being specially adapted to mate with a complementary coupling part*. 
620.3 **Fuse enclosed in plug of type having two or three prongs (i.e., standard-type plug used at wall outlets):**
Subject matter under subclass 620.29 wherein the coupling part is an insulative body having two or three longitudinally engaging prong-like contacts on one face and the fuse enclosed in the insulative body.

620.31 **Plug is an adapter (includes connector for second plug):**
Subject matter under subclass 620.3 wherein the connector is adapted to be disposed between two plural contact coupling parts and provides an intermediate conductive path between contacts of the two coupling parts.

620.32 **Right-angle plug (wiring at right angle to plug prongs):**
Subject matter under subclass 620.3 wherein the connector has a cable with wiring joined to the prongs of the connector, the cable extending at ninety degrees to the axes of the connector plug prongs.

SEE OR SEARCH THIS CLASS, SUBCLASS:
694, for right-angle plug not in combination with circuit component.

620.33 **Fuse with flat coplanar blades or receiver for such fuse:**
Subject matter under subclass 620.29 wherein the connector has contacts adapted to receive a fuse having planar terminals at each end of the fuse, the terminals positioned in the same plane.

620.34 **Fuse removably held in holder for plug-in step:**
Subject matter under subclass 620.26 wherein the connector is a portable insulative body for detachably retaining a fuse and having contacts with ends engaging the terminals of the fuse and other ends manageable into engagement with contacts of a mating connector.

(1) **Note.** Holder may include pivotally mounted cover.