

10 Documents

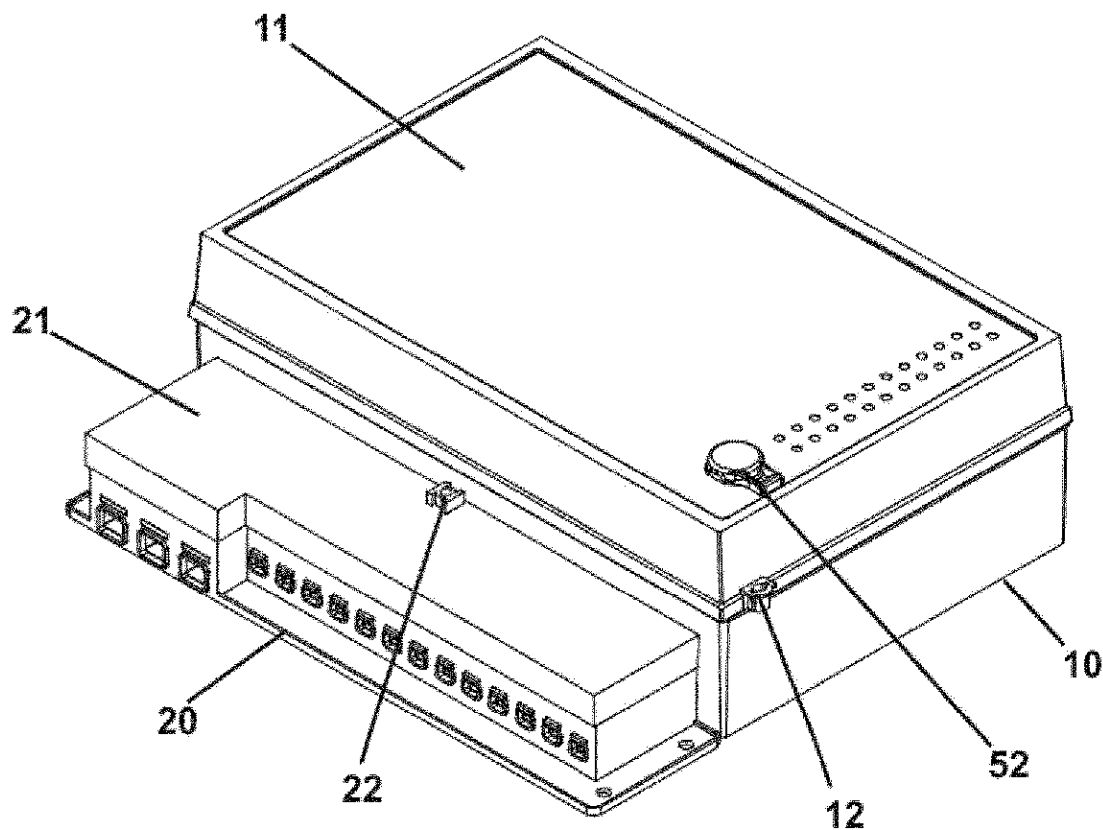
Publication numbers	Title	Current assignees
EP3483614 A1	Digital electronic meter for electrical magnitudes with six or more measurement elements	LUIZ PAULO SALETTI
US7800890 B1	Meter cover molding and method	ACLARA METERS
US5326937 A	Grounding structure of a printed wiring board	FUJITSU ISOTEC
US5687062 A	High-thermal conductivity circuit board	HEAT TECHNOLOGIES
US4328614 A	Method for the manufacture of porcelain coated metal boards having interconnections between the top and bottom surfaces	INTERSIL
US3991347 A	Plated-through hole soldering to filter body	TE CONNECTIVITY
US4034290 A	Electrical meter assembly having displaced meter and socket terminals	WESTINGHOUSE ELECTRIC
EP-705481 A1	Power window switch control apparatus	LEAR AUTOMOTIVE DEARBORN
US20130088214 A1	Mounting systems for use with meters and method of assembling same	ACLARA METERS
JP08034263 A	Distributing board and manufacture thereof	YAZAKI

Family 1/10 - FAMPAT - ©Questel

Title

(EP3483614)

Digital electronic meter for electrical magnitudes with six or more measurement elements

Images**Fig. 1****Publication numbers with kind code & date**

EP3483614	A1	2019-05-15	EP3483614
CO2018014004	A2	2019-01-18	CO2018014004
BR212018004682	U2	2018-07-24	BR212018004682
BR212018004682	U1	2018-04-03	BR212018004682
WO2018/006144	A1	2018-01-11	WO201806144

**Abstract**

(EP3483614)

A digital electronic meter of electrical quantities with six or more measuring elements is described which comprises a digital electronic meter whose execution, mechanical and electrical arrangement, as well as the implementation of hardware and software, are in accordance with all the current rules of the field of legal metrology. This meter is managed by a firmware that performs the association of measuring elements, standardizing and limiting usage settings, making it highly secure and standardized for use in business relationships with auditing, traceability and certification requirements. The meter is of the bottom connect type, direct connection, whose detachable terminal block facilitates its installation and replacement.

Inventors

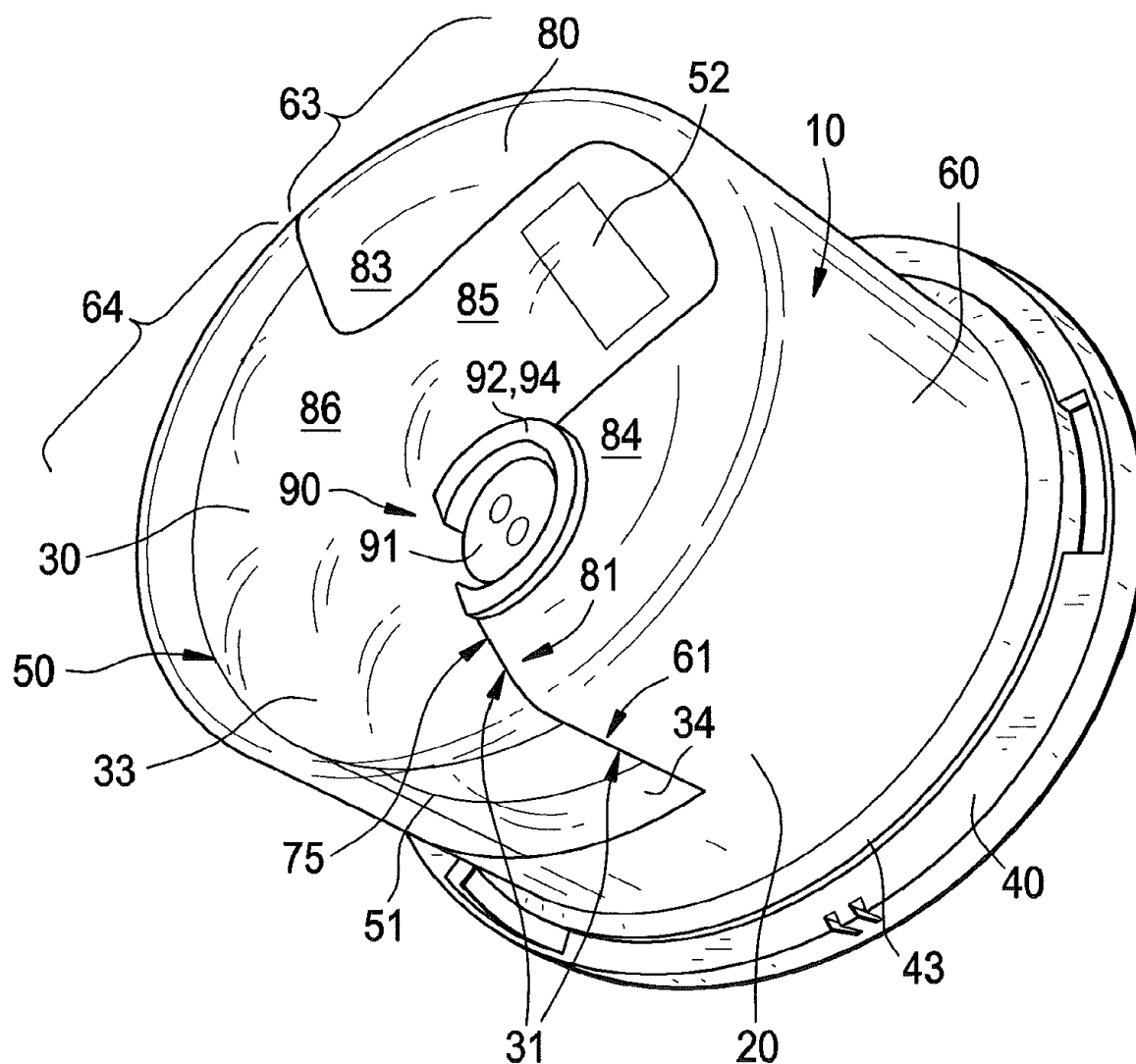
SALETTI LUIZ PAULO

Family 2/10 - FAMPAT - ©Questel

Title

(US7800890)

Meter cover molding and method

Images**Publication numbers with kind code & date**[US7800890](#)

B1 2010-09-21

US7800890

**Abstract**

(US7800890)

A meter cover is provided and includes an opaque portion, including an outer perimeter section to perimetrically fit around a meter, a sidewall extending axially from the perimeter section toward a frontal region and a shield disposed at a portion of a sidewall edge at the frontal region and a transparent portion having an edge, which is shiplap joint bonded with a remaining portion of the sidewall edge and edges of the shield.

Inventors

TERRIEN WAYNE ALFRED

DELUCA RICKEY JAMES

VAN OLST TERRY LEE

Latest standardized assignees - inventors removed

ACLARA METERS

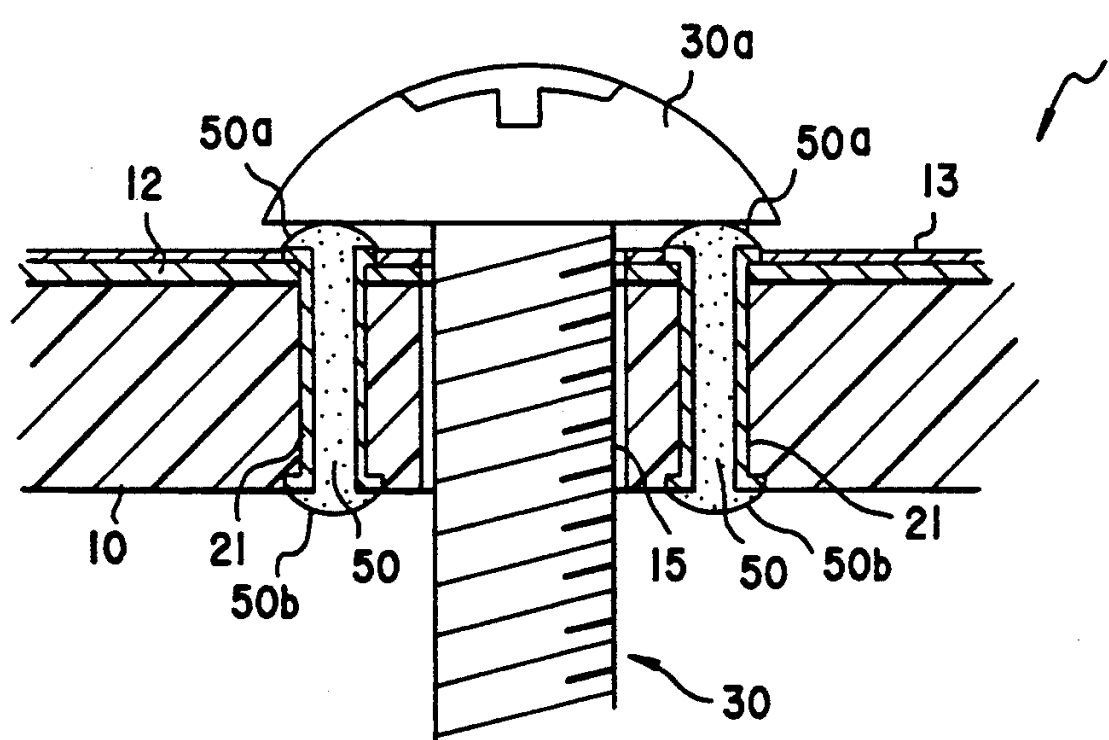
Family 3/10 - FAMPAT - ©Questel

Title

(US5326937)

Grounding structure of a printed wiring board

Images



Publication numbers with kind code & date

US5326937

A

1994-07-05

US5326937

JP05206601

A

1993-08-13

JP05206601



Abstract

(US5326937)

At least one grounding through hole filled with solder is provided in a printed wiring board near by a fixing hole through which a screw fixes the board to a frame, penetrating a ground layer provided on an upper surface of the board and a substrate, made of insulating material, of the board. A metal layer made of electrically conductive and solderable material is plated on an inner surface of the grounding through hole so that melted solder is raised to an upper surface of the board. An upper end of the metal layer is formed to a flange electrically connected with the ground pattern so that the melted solder is raised from the upper surface of the board, forming a spherical end of the solder.

Inventors

WATANABE SHINYA

Latest standardized assignees - inventors removed

FUJITSU ISOTEC

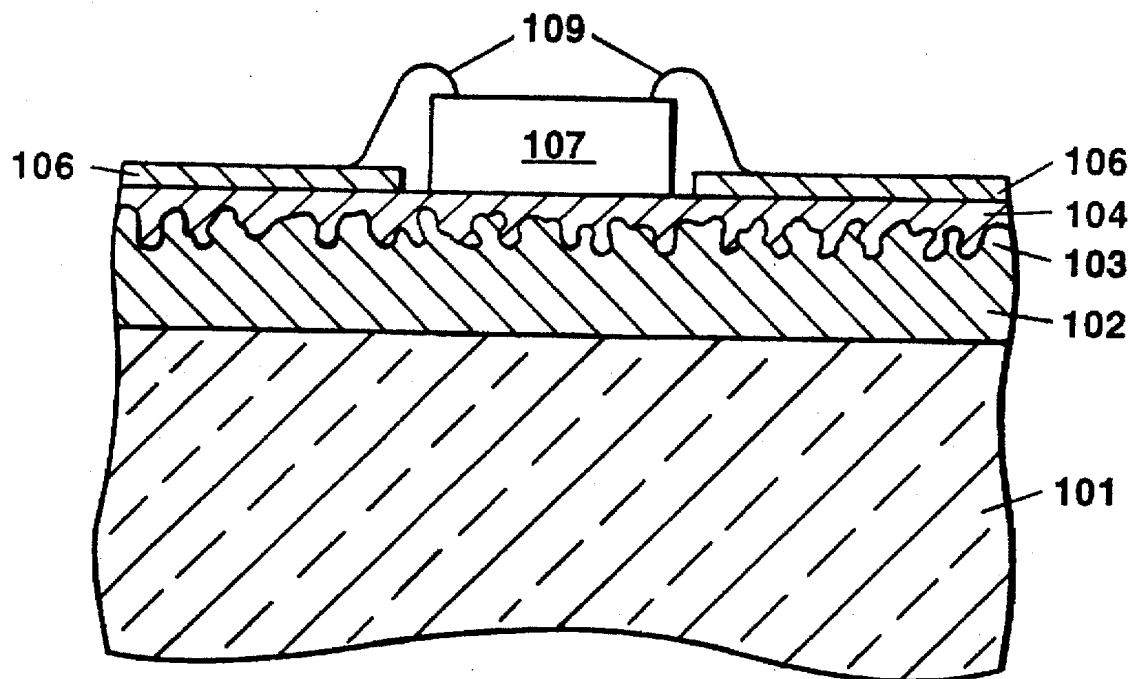
Family 4/10 - FAMPAT - ©Questel

Title

(US5687062)

High-thermal conductivity circuit board

Images

**Publication numbers with kind code & date**

US5774336	A	1998-06-30	US5774336
US5687062	A	1997-11-11	US5687062
TW318997	B	1997-11-01	TW-318997

**Abstract**

(US5687062)

A thermally efficient circuit board has a base layer with high thermal conductivity and a thermal expansion coefficient close to that of silicon, such as aluminum silicon carbide. Above the base layer is a layer of anodized metal, either a separate material, such as aluminum, which is formed on the base and then anodized, or an anodized portion of the base itself. To the anodized metal is then applied a sealant material of lower thermal conductivity, but good electrically insulative and adhesive qualities, such as Teflon FEP. The sealant flows into cavities in the porous anodized metal structure, creating a well-anchored bond. A metal foil layer is then bonded to the surface of the sealant, and used to pattern conductive circuit paths using conventional methods.

Inventors

LARSON RALPH I

Latest standardized assignees - inventors removed

HEAT TECHNOLOGIES

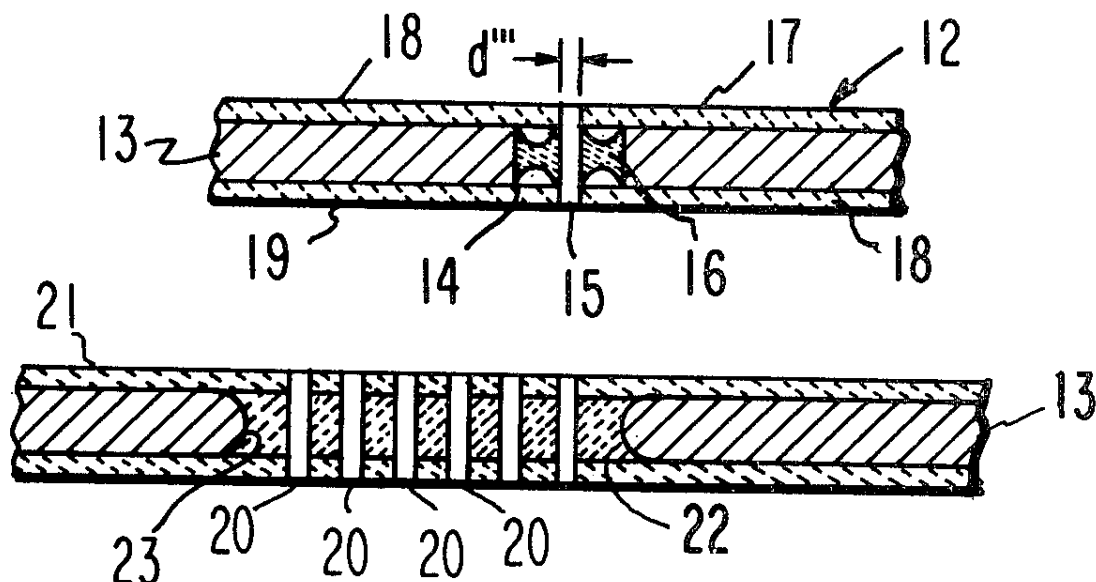
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Title

(US4328614)

Method for the manufacture of porcelain coated metal boards having interconnections between the top and bottom surfaces

Images



Publication numbers with kind code & date

US4393438	A	1983-07-12	US4393438
US4328614	A	1982-05-11	US4328614



Abstract

(US4328614)

In accordance with this invention a procelain coated metal board is provided which has flat surfaces and further has electrical connections between the face and reverse surfaces of the board. In accordance with a further aspect of this invention the boards of this invention are obtained by a method in which the connecting pins are sealed in a spaced relationship in apertures in the metal core of the board and insulated from the core prior to the application of the procelain to the surfaces of the core.

Inventors

SCELHORN ROBERT L

Latest standardized assignees - inventors removed

INTERSIL

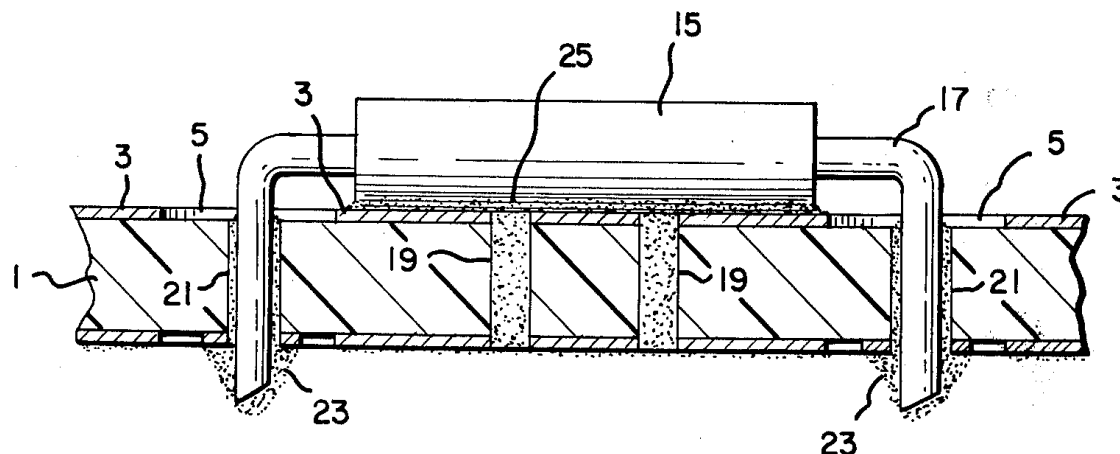
Family 6/10 - FAMPAT - ©Questel

Title

(US3991347)

Plated-through hole soldering to filter body

Images



Publication numbers with kind code & date[US3991347](#)

A

1976-11-09

US3991347

**Abstract**

(US3991347)

A method of one step soldering of the outer diameter of a filter sleeve to a printed circuit board while soldering the leads thereto simultaneously as well as the completed filter assembly. The method comprises provided a printed circuit board having an electrically conductive coating on at least the upper surface with a portion of the conductor removed in the regions where leads from the filter to be positioned on the top surface of the printed circuit board are to extend through the printed circuit board for soldering. The printed circuit board includes apertures extending entirely therethrough, not only for the leads from the components positioned on the surface thereof, but also beneath filter sleeves positioned on the printed circuit board. The apertures in the printed circuit board are preferably coated with an electrically conductive material to provide better adherence for the solder during the soldering operation. In the event a conductive ground plane is to be utilized on the upper and lower surfaces of the printed circuit board, it is essential that the apertures beneath the filter sleeves be plated through.

Inventors

HOLLYDAY ROBERT DAVID

Latest standardized assignees - inventors removed

TE CONNECTIVITY

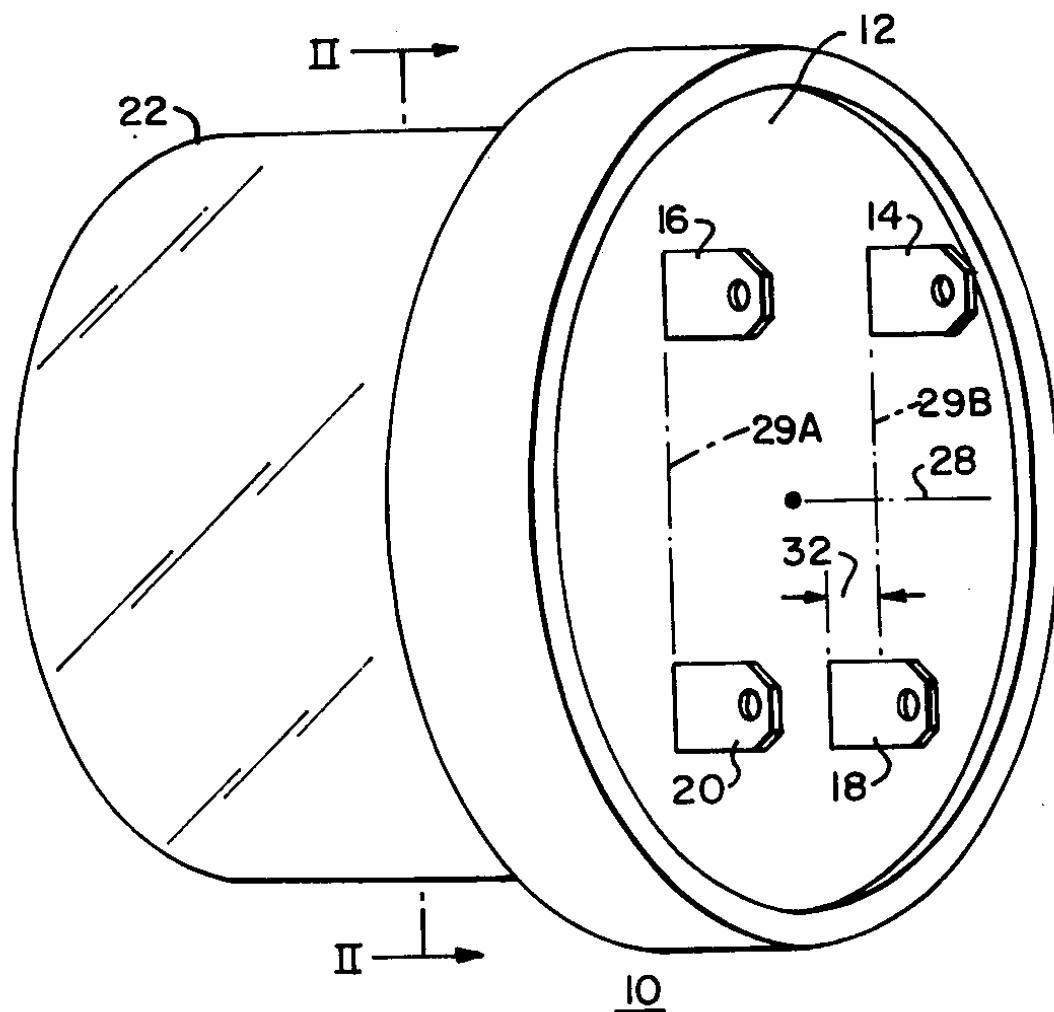
Family 7/10 - FAMPAT - ©Questel

Title

(US4034290)

Electrical meter assembly having displaced meter and socket terminals

Images

**Publication numbers with kind code & date**[US4034290](#)

A 1977-07-05

US4034290

**Abstract**

(US4034290)

An electrical meter assembly including a plug-in meter and a meter socket, each having terminals. An adaptor modifies a terminal of the meter socket, enabling the modified and unmodified terminals thereof to engage the terminals of the meter in only one orientation of the meter relative to the meter socket.

Inventors

WARREN ROBERT A

Latest standardized assignees - inventors removed

WESTINGHOUSE ELECTRIC

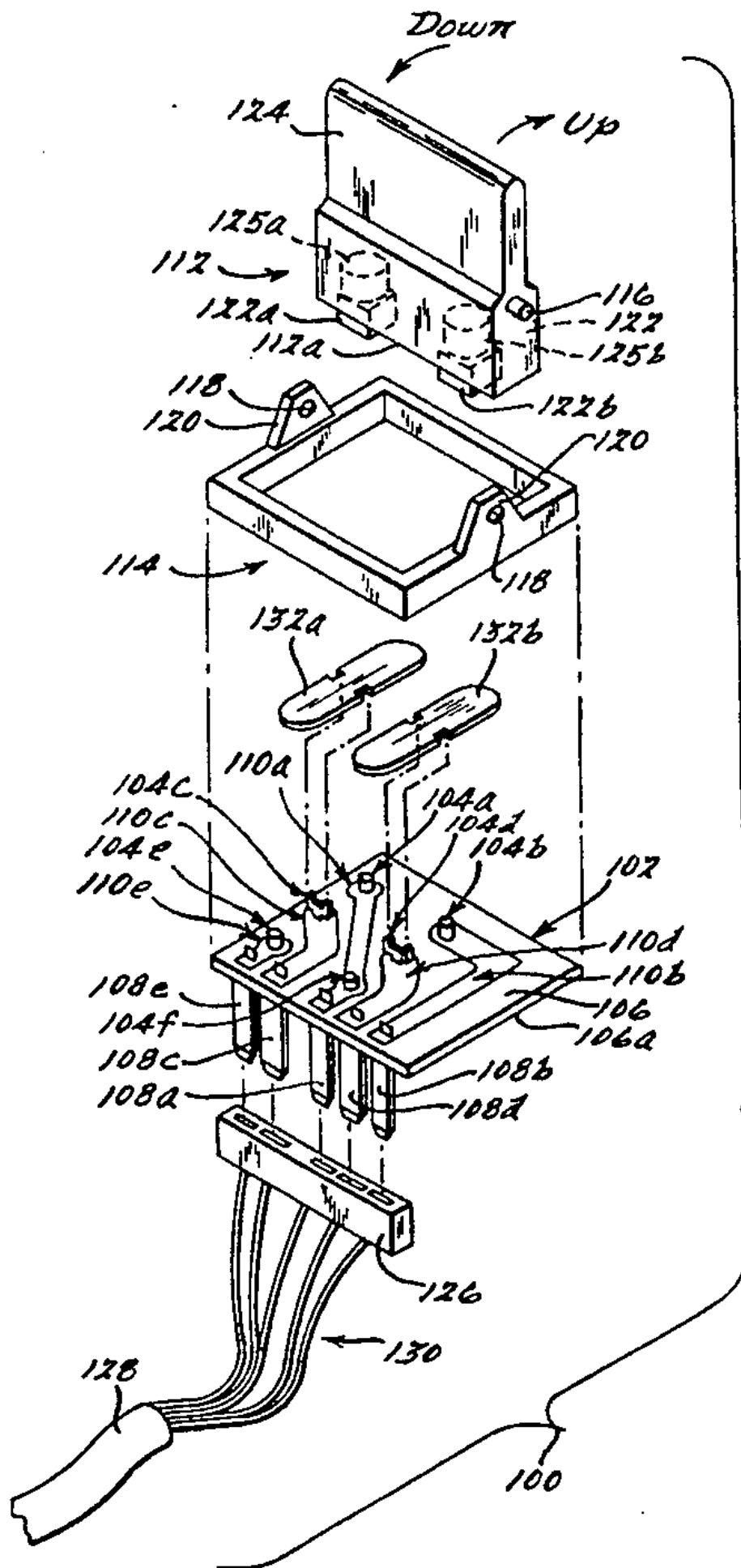
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Title

(EP-705481)

Power window switch control apparatus

Images



Publication numbers with kind code & date

JPH08511899	A	1996-12-10	JP08511899
EP0705481	A1	1996-04-10	EP-705481
US5412166	A	1995-05-02	US5412166
CA2163982	A1	1995-01-05	CA2163982
WO95/00963	A1	1995-01-05	WO9500963

**Abstract**

(EP0705481)

A power switch control module (100) for a power window control circuit of a motor vehicle. The control module incorporates a printed circuit board (102), a plurality of switch contacts (104a-104f) secured to the printed circuit board (102), a plurality of connector terminals (108a-108e) also secured to the printed circuit board (102), a plurality of high current traces (110a-110e) formed on an upper surface (106) of the printed circuit board (102) for coupling selected pairs of the switch contacts and connector terminals electrically together, and a switch control (112). The switch control (112) is mounted in a frame member (114) for pivotal movement relative to the printed circuit board (102) and is movable between up and down positions. When in the up position the switch control (112) electrically couples a first selected pair of switch contacts (104a-104f) and when in the down position the switch control (112) electrically couples a second selected pair of the switch contacts (104a-104f). The high current traces (110a-110e) are capable of handling about 20-80 amps of current. Since they are formed on the upper surface (106) of the printed circuit board (102), no injection molding, tooling or techniques are required for construction of the module (100) as typically required with prior art control modules. Also, the undersurface of the printed circuit board (102) can advantageously be used to mount other electronic components of the control circuit.

Inventors

KRUPP ERIC J

BENZIE THOMAS P

Latest standardized assignees - inventors removed

LEAR AUTOMOTIVE DEARBORN

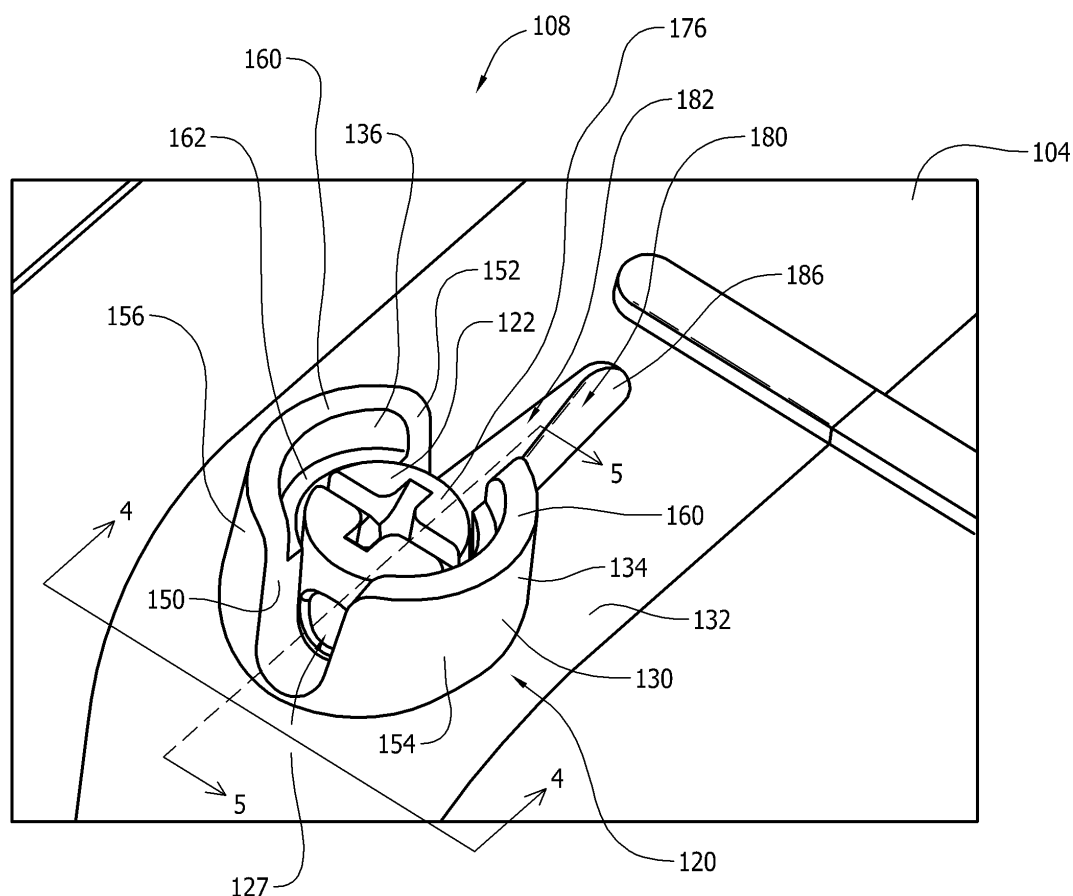
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Title

(US8872506)

Mounting systems for use with meters and method of assembling same

Images



Publication numbers with kind code & date

[US8872506](#)

B2 2014-10-28

US8872506

[US20130088214](#)

A1 2013-04-11

US20130088214



Abstract

(US20130088214)

An electricity meter is provided. The electricity meter includes a body and a cover including at least one mount for coupling the cover to the body. The at least one mount includes a receiving portion on an exterior surface of the cover and having an aperture extending therethrough, the receiving portion including a top, a bottom, and at least one cutout extending from the top towards the bottom.

Inventors

WALSER MICHAEL SVEN

BIETZ STEVEN LEE

Latest standardized assignees - inventors removed

ACLARA METERS

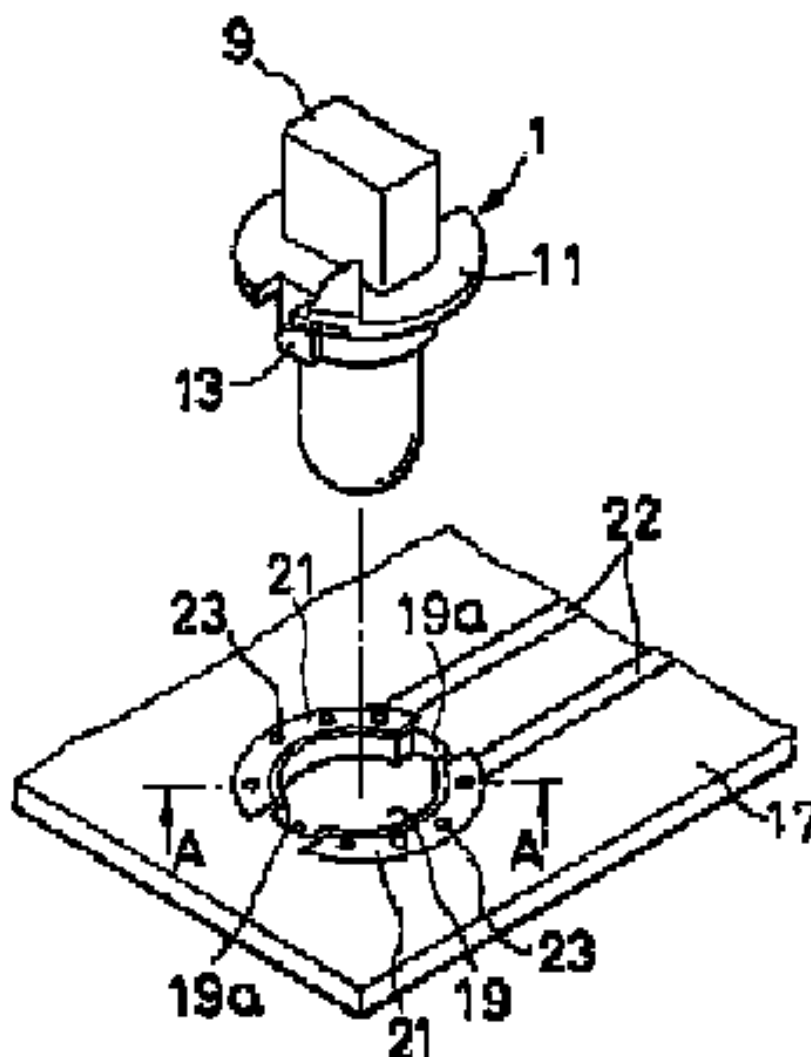
Family 10/10 - FAMPAT - ©Questel

Title

(JP08034263)

Distributing board and manufacture thereof

Images



Publication numbers with kind code & date

JP08034263

A 1996-02-06

JP08034263



Abstract

(JP08034263)

PURPOSE: To make the totaled thickness of cream solder, a distributing board and a conductive part checkable within the mounting allowable thickness of a mounted component, especially a lighting bulb by installing a cream solder guide hole, piercing through the distributing board comprising a conductive part, in this conductive part in and around a through hole into which the mounted component is inserted.

CONSTITUTION: A distributing board 17 for an instrument lighting bulb 1 for an automobile is formed with a through hole 19 into which this bulb 1 is inserted from the upside, and a pair of notches 19a for passing through a pair of clamping

guides 13 of the bulb 1 are installed in peripheral edges being mutually opposed of this through hole 19. In addition, bulb land 21 consisting of copper foil is formed around the through hole 19 excepting the notches 19a, an energizing wiring pattern 22 is installed on the distributing board 17 in a state of being conducted to this land 21. In succession, plural pieces of through holes 23 as cream solder guide holes to be pierced through to the backside of the opposite side to the land 21 of the distributing 17 from the surface of the land 21 are formed in the circumferential direction.

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Inventors

IKETANI TOSHIFUMI

Latest standardized assignees - inventors removed

YAZAKI