

Title (en)

Portable object with bracelet and electrical connecting flange penetrating the casing, and method of mounting the flange

Title (de)

Tragbares Armbandgerät mit elektrischem Verbindungselement durchs Gehäuse und Verfahren zur Montage des Verbindungselements

Title (fr)

Objet portable à bracelet muni de bride de contact électrique à travers le boîtier, et procédé de montage de la bride

Publication

EP 1513221 A1 20050309 (FR)

Application

EP 03020024 A 20030903

Priority

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Abstract (en)

A portable object comprises a case containing electronic circuit(s), a wristband attached to the case, and electrical conductor for electrically connecting at least one conductive track of the wristband to at least one contact terminal of the electronic circuit. An encapsulation material is placed in the cavity between the two wall portions to fix intermediate portion of the flange and to shut off and seal each opening in wall portions. A portable object comprises a case containing electronic circuit(s), a wristband attached to the case, and electrical conductor for electrically connecting at least one conductive track of the wristband to at least one contact terminal of the electronic circuit. The electrical conductor comprises electrical contact flange fixed through a lateral wall of the case, a first portion of the flange inside the case being electrically connected to the electronic circuit and a second portion of the flange outside the case being electrically connected to the conductive track of the wristband. The lateral wall comprises a cavity between first and second portions of the lateral wall, an opening through which the flange passes being formed in each lateral wall portion, and where an encapsulation material is placed in the cavity between the two wall portions to fix an intermediate portion of the flange and to shut off and seal each opening in the wall portions. An independent claim is also included for a mounting method of electrical conductor comprising at least one electrical contact flange, comprising passing electrical contact flange(s) through an opening in each wall portion of a cavity formed in a lateral wall of the case so that a first portion of the flange is inside the case and adapted to be electrically connected to at least one contact terminal of an electronic circuit and a second portion of the flange is outside the case and adapted to be electrically connected to at least one conductive track of the wristband, the dimension of each opening being equal to or greater than the cross-section of each portion of the flange; filling the cavity with a liquid encapsulation material using a dedicated tool; and solidifying the encapsulation material introduced into the cavity to fix the intermediate portion of the flange and to shut off and seal each wall portion opening.

Abstract (fr)

L'objet portable (1) comprend un boîtier (2, 3) dans lequel est disposé au moins un circuit électronique (11), un bracelet (4, 5) attaché au boîtier, et des moyens de connexion électrique (8) pour relier électriquement au moins une piste conductrice (6, 7) du bracelet à au moins une borne de contact du circuit électronique. Les moyens de connexion électrique comprennent au moins une bride de contact électrique (8) fixée à travers une paroi latérale (15) du boîtier. Une première partie de la bride (8) est reliée électriquement au circuit électronique (11) et une seconde partie de la bride est reliée électriquement à la piste conductrice du bracelet. La paroi latérale (15) comprend une cavité entre des première et seconde portions de la paroi latérale. Une ouverture de passage de la bride est pratiquée dans chaque portion de paroi latérale. Un matériau de scellement (9), tel qu'une colle polymérisable, est placé dans la cavité entre les deux portions de paroi pour fixer une partie intermédiaire de la bride et obturer étanchement chaque ouverture des portions de paroi. <IMAGE>

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H01Q 1/27; **G04G 1/00**

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CPC (source: EP KR US)

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Citation (search report)

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