

Title (en)
Water-tight control device for a watch.

Title (de)
Wasserdichte Steuerungsvorrichtung für Uhren.

Title (fr)
Dispositif de commande étanche pour montre.

Publication
EP 0556155 A1 19930818 (FR)

Application
EP 93810069 A 19930204

Priority
CH 42492 A 19920212

Abstract (en)
This device includes a crown (13) having a central cavity (12) and an annular cavity (15), in the back of which a groove (18) is accommodated. The lateral external face of the annular cavity (15) has a threading (17) intended to be screwed onto a threading made on the external lateral face (8) of an outside part of a tube (4) screwed into a watchcase calibre (1). A seal (19) of injected thermoplastic elastomer is arranged inside the annular cavity (15). This seal includes two portions (19a, 19b) of like external diameters but of unlike inside diameters, the portion of larger outside diameter (19a) engaging into the groove (18) and the portion (19b) of smaller inside diameter being that acted upon by the tube (4) in the screwed-home position of the crown. <IMAGE>

Abstract (fr)
Ce dispositif comporte une couronne (13) présentant une cavité centrale (12) et une cavité annulaire (15) dans le fond de laquelle est ménagée une gorge (18). La face latérale externe de la cavité annulaire (15) présente un filetage (17) destiné à se visser sur un filetage ménagé sur la face latérale externe (8) d'une partie extérieur d'un tube (4) vissé dans une carrure (1) de boîte de montre. Un joint (19) en un élastomère thermoplastique injecté est disposé dans la cavité annulaire (15). Ce joint comporte deux portions (19a, 19b) de mêmes diamètres externes mais de diamètres intérieurs différents, la portion de plus grand diamètre extérieur (19a) s'engageant dans la gorge (18) et la portion (19b) de plus faible diamètre intérieur étant celle sur laquelle agit le tube (4) en position vissée de la couronne. <IMAGE>

IPC 1-7
G04B 37/10

IPC 8 full level
G04B 37/10 (2006.01)

CPC (source: EP US)
G04B 37/103 (2013.01 - EP US)

Citation (search report)

- [YD] CH 308031 A 19550630 - ROLEX MONTRES [CH]
- [YD] FR 2002866 A1 19691031 - UNITED STATES TIME CORP [US]
- [A] FR 2030093 A1 19701030 - OMEGA BRANDT & FRERES SA LOUIS
- [A] FR 2420712 A1 19791019 - JOINT FRANCAIS [FR]
- [A] EP 0153456 A1 19850904 - GURIT ESSEX AG [CH]

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