

Title (en)

Enamelled watch face with feet and its fabrication method

Title (de)

Emailliertes Zifferblatt mit Füsse und sein Herstellungsverfahren dafür

Title (fr)

Cadran émaillé avec pieds et son procédé de fabrication

Publication

EP 1538492 A1 20050608 (FR)

Application

EP 03027684 A 20031203

Priority

EP 03027684 A 20031203

Abstract (en)

The dial has a ceramic substrate (1) whose outer surface has two enamel layers (3) and inner surface has an adhesive film (5). A thick metallic layer (7) is deposited on the film, to fix a steady-pin (9). A head (11) of the pin is fixed on the layer (7), by sticking, welding or soldering. The inner surface has a cylindrical housing to position the steady-pin. An independent claim is also included for a method of manufacturing an enameled dial with a steady-pin.

Abstract (fr)

Le cadran est réalisé à partir d'un substrat (1) en céramique dont la surface externe est revêtue d'une à deux couches d'émail (3) et dont la surface interne comporte un film d'accrochage (5) permettant le dépôt d'une couche métallique (7) plus épaisse pour la fixation de la tête (11) des pieds (9) par collage, soudage ou brasage. <IMAGE>

IPC 1-7

G04B 19/12; **G04B 19/14**; **G04B 19/10**

IPC 8 full level

G04B 19/10 (2006.01); **G04B 19/12** (2006.01); **G04B 19/14** (2006.01)

CPC (source: EP)

G04B 19/10 (2013.01); **G04B 19/12** (2013.01); **G04B 19/14** (2013.01); **G04D 3/0048** (2013.01)

Citation (search report)

- [X] GB 2052113 A 19810121 - CITIZEN WATCH CO LTD, et al
- [A] GB 2207092 A 19890125 - TOTCERAMICA MAQUINARIA
- [A] US 3803832 A 19740416 - SHIMIZU N
- [A] CH 649670G A3 19850614
- [X] PATENT ABSTRACTS OF JAPAN vol. 0110, no. 32 (P - 541) 30 January 1987 (1987-01-30)

Cited by

CN107329390A; CN103576530A

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 1538492 A1 20050608; **EP 1538492 B1 20080521**; CH 697052 A5 20080331; DE 60321186 D1 20080703; HK 1079297 A1 20060331

DOCDB simple family (application)

EP 03027684 A 20031203; CH 20592003 A 20031203; DE 60321186 T 20031203; HK 05111120 A 20051206