

Title (en)

Decorative element particularly component of a timepiece

Title (de)

Zierelement insbesondere Bauteil einer Uhr

Title (fr)

Élément décoratif, notamment élément constitutif d'une pièce d'horlogerie

Publication

**EP 0844539 B1 20031119 (FR)**

Application

**EP 96118796 A 19961122**

Priority

EP 96118796 A 19961122

Abstract (en)

[origin: EP0844539A1] The wrist watch comprises four main pieces: an internal frame (2), an outer frame (4), a glass (6) and a base (8). The internal frame is made of a machined metal such as stainless steel and contains the mechanism. A part of the outer frame (4) is coated with a diamond layer having a micro-crystalline structure and 'cauliflower' type surface. This coating may be applied to specific surfaces of the frame (32,24,26). The coating offers a surface hardness of more than 800 HV, and is applied to a substrate of hard sintered metal or ceramic. If the material is too soft, then a shock to the outer casing can cause a fracture, since the outer thin coating does not have the elasticity which a soft substrate offers. If a metal substrate is used, then hard stainless steel may be used, sintered with tungsten carbide or titanium carbide, the carbides being attached with the aid of softer metals such as nickel, chromium, cobalt, molybdenum or a mixture of these.

IPC 1-7

**G04B 37/22**

IPC 8 full level

**G04B 37/18** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP KR US)

**G04B 37/22** (2013.01 - KR); **G04B 37/223** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

CH DE FR GB IT LI LU SE

DOCDB simple family (publication)

**EP 0844539 A1 19980527**; **EP 0844539 B1 20031119**; CN 1161673 C 20040811; CN 1185599 A 19980624; DE 69630792 D1 20031224; DE 69630792 T2 20040923; HK 1013779 A1 19990910; JP 4476371 B2 20100609; JP H10160863 A 19980619; KR 100547850 B1 20060414; KR 19980041971 A 19980817; SG 67443 A1 19990921; TW 346557 B 19981201; US 6123450 A 20000926

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