

Title (en)  
Watchcase

Title (de)  
Uhrgehäuse

Title (fr)  
Boîte de montre

Publication  
**EP 1431845 B1 20061025 (FR)**

Application  
**EP 02406123 A 20021220**

Priority  
EP 02406123 A 20021220

Abstract (en)  
[origin: EP1431845A1] The glass frame (1) has internal emplacements (1a,1b) for rollers (4) which have grooves for a circular spring. The circular spring retains the rollers in the emplacements and is located in a frame groove. The rollers engage with undulations (2a) on the vertical face of an L section ring (2) which is attached to the watch case (B) and allow controlled rotation.

IPC 8 full level  
**G04B 19/28** (2006.01)

CPC (source: EP US)  
**G04B 19/283** (2013.01 - EP US)

Cited by  
EP4020098A1; EP4020097A1; CH702052A1; EP2672333A1; RU2609193C2; EP1696285A3; EP3276432A1; EP2905661A1; EP3570116A1; CH714976A1; US9348315B2; US10088806B2; WO2013182487A1; US9501037B2; EP1696285A2; US11977355B2; EP3582028A1; US11609538B2

Designated contracting state (EPC)  
CH DE FR GB LI

DOCDB simple family (publication)  
**EP 1431845 A1 20040623; EP 1431845 B1 20061025**; CN 100432868 C 20081112; CN 1510534 A 20040707; DE 02406123 T1 20050113; DE 60215683 D1 20061207; DE 60215683 T2 20070222; HK 1062202 A1 20041021; JP 2004205515 A 20040722; JP 4402445 B2 20100120; US 2004141424 A1 20040722; US 6871997 B2 20050329

DOCDB simple family (application)  
**EP 02406123 A 20021220**; CN 200310120561 A 20031212; DE 02406123 T 20021220; DE 60215683 T 20021220; HK 04105184 A 20040715; JP 2003423451 A 20031219; US 73539003 A 20031212