

Title (en)
WATCH CASE PROVIDED WITH A CAP MADE OF A HARD MATERIAL

Publication
EP 0383179 B1 19921104 (FR)

Application
EP 90102396 A 19900207

Priority
CH 51589 A 19890214

Abstract (en)
[origin: JPH02240592A] PURPOSE: To improve the reliability of the side of the timepiece by providing a radial gap between cylindrical surfaces, bringing a frustum of circular cone provided below a cap into contact with the frustum-of-circular-cone surface of an intermediate part, and fitting an annular fixed element made of a deformable material between the cylindrical surfaces. CONSTITUTION: An intermediate component 1 has a lower part 6 and an upper part 7 so as to contain a movement 5, and the part 6 is united with the movement 4. The top surface of the part 7 is flat and an outside surface 9 is cylindrical; and an inside surface 10 is slightly in the shape of a frustum of circular cone and the bottom part of the inside surface 10 is limited by a shoulder part 11. A cap 2 has a thicker annular part 18 and a thinner radial-side part 19. The inside of the part 19 is limited by the cylindrical surface, the lower side is limited by an inside frustum-of-circular-cone surface 21 having the same slope with the top surface 14, and the upper side is limited by a frustum-of-circular-cone surface 22 formed by cutting the level of the peak part 23 of the part 19. Parts 1 and 2 are fixed with a ring 31 made of a deformable material, e.g., elastomer. This ring 31 is put in a radial gap formed between shaft surfaces 20 and 9 and positioned along the height by coming into contact with the surfaces 13 and 21.

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G04B 37/08; **G04B 37/22**

IPC 8 full level
G04B 37/18 (2006.01); **G04B 37/08** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP KR US)
G04B 37/00 (2013.01 - KR); **G04B 37/086** (2013.01 - EP US); **G04B 37/22** (2013.01 - EP US)

Citation (examination)
• EP 0052316 A1 19820526 - RODI & WIENERBERGER AG
• EP 0150746 A2 19850807 - RADO MONTRES SA [CH]
• EP 0280963 A1 19880907 - EBAUCHESFABRIK ETA AG [CH]
• EP 0221233 A1 19870513 - EBAUCHESFABRIK ETA AG [CH]
• US 4815053 A 19890321 - DAL BUSCO GIANCARLO [CH]

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