

Title (en)  
SHOCKPROOF BEARING FOR A TIMEPIECE

Title (de)  
STOSSSICHERES LAGER FÜR UHR

Title (fr)  
PALIER ANTICHOC POUR PIECE D'HORLOGERIE

Publication  
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Application  
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Abstract (en)  
[origin: WO2013087173A1] The invention relates to a shock-proof bearing for a timepiece, comprising a resilient structure (10) and a central part (14) borne by the resilient structure, said central part including a blind hole (16A) intended to receive a pivot of a rotary mobile element of the timepiece. The resilient structure and the central part are formed by a single one-piece plate (6) made from monocrystalline quartz and the blind hole is at least partially in the shape of a truncated or non-truncated trigonal pyramid, against which the end of the pivot butts. The invention also relates to a method for producing such a shock-proof bearing, in which the one-piece plate is machined in a chemical bath to allow the anisotropic etching of the monocrystalline quartz. Preferably, two masks (20, 26) are positioned respectively on the two sides of the plate so that the quartz can be etched on both sides simultaneously.

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