

Title (en)
METASTABLE TITANIUM ALLOY, TIMEPIECE SPRING MADE FROM SUCH AN ALLOY AND METHOD FOR PRODUCTION THEREOF

Title (de)
METASTABILE TITANLEGIERUNG, AUS SOLCH EINER LEGIERUNG HERGESTELLTE UHRFEDER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
ALLIAGE DE TITANE β METASTABLE, RESSORT D'HORLOGERIE A BASE D'UN TEL ALLIAGE ET SON PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: WO2018172164A1] The invention relates to a metastable β titanium alloy comprising, by weight percent, between 24 and 45% niobium, between 0 and 20% zirconium, between 0 and 10% tantalum and/or between 0 and 1.5% silicon and/or less than 2% oxygen, said alloy being characterized in that it has a crystallographic structure comprising; - a mix of austenitic phase and alpha phase, and - a presence of omega phase precipitates the volume fraction of which is less than 10%. The invention also relates to a timepiece spring made from such an alloy and a method for producing such a spring.

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