

Title (en)
TIMEPIECE SPRING MADE OF AUSTENITIC STAINLESS STEEL

Title (de)
UHRFEDER AUS AUSTENITISCHEM ROSTFREIEM STAHL

Title (fr)
RESSORT D'HORLOGERIE EN ACIER INOXYDABLE AUSTENITIQUE

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Application
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Abstract (en)
[origin: WO2014206582A2] The invention relates to a timepiece spring (1) made of austenitic stainless alloy, steel comprising a base consisting of iron and chromium. The thickness thereof is smaller than 0.20 mm. Said spring comprises by weight: chromium having a minimum value of 15% and a maximum value of 25 %; manganese having a minimum value of 5% and a maximum value of 25 %; nitrogen having a minimum value of 0.10% and a maximum value of 0.90%; carbon having a minimum value of 0.10% and a maximum value of 1.00 %; the total of the contents by weight of carbon and of nitrogen as a proportion of the total is 0.40% to 1.50%; the (C/N) ratio of the content by weight of carbon as a proportion of the total relative to that of nitrogen is 0.125 to 0.550; impurities and added metals outside of iron having a minimum value of 0% and a maximum value of 12.0%; and iron having a value rounding out the 100 %. The invention is used with a barrel spring.

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G04B 1/14 (2006.01)

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