

Title (en)
NON-MAGNETIC TIMEPIECE PARTS AND THERMO-MECHANICAL TREATMENT METHOD FOR OBTAINING SAID PARTS

Title (de)
NICHTMAGNETISCHE UHRTEILE UND THERMOMECHANISCHES BEHANDLUNGSVERFAHREN ZUR HERSTELLUNG DIESER TEILE

Title (fr)
PIÈCES D'HORLOGERIE AMAGNÉTIQUES ET PROCÉDÉ DE TRAITEMENT THERMOMÉCANIQUE POUR L'OBTENTION DE TELLES PIÈCES

Publication
EP 4267772 A1 20231101 (FR)

Application
EP 21843991 A 20211222

Priority
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Abstract (en)
[origin: WO2022136552A1] Non-magnetic part comprising an austenitic alloy, the austenitic alloy comprising between 50 and 85 wt % of iron, one or more gammagene elements the weight percentage or the total weight percentages of which amount to between 15 and 35 wt %, and less than 2 wt % of nitrogen. The austenitic alloy has a crystallographic structure comprising a predominantly cubic crystal structure and the presence of a hexagonal crystal structure. The magnetic part comprises a hardness gradient in the direction extending radially from the surface of the at least one portion of the non-magnetic part to the inside of the non-magnetic part, the hardness gradient having a value greater than or equal to 100 HV.

IPC 8 full level
C21D 1/74 (2006.01); **C21D 1/26** (2006.01); **C21D 7/04** (2006.01); **C21D 9/00** (2006.01); **C22C 19/00** (2006.01); **C22C 19/05** (2006.01); **C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/22** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/30** (2006.01); **C22C 38/34** (2006.01); **C22C 38/38** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP US)
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