

Title (en)
METHOD FOR MANUFACTURING A BALANCE FOR A TIMEPIECE

Title (de)
HERSTELLUNGSVERFAHREN EINER UNRUH FÜR UHREN

Title (fr)
PROCÉDÉ DE FABRICATION D'UN BALANCIER POUR PIÈCE D'HORLOGERIE

Publication
EP 3502787 B1 20201118 (FR)

Application
EP 17210299 A 20171222

Priority
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Abstract (en)
[origin: US2019196408A1] A process for producing a metal alloy balance wheel by molding, the process including the following steps: a) making a mold in the negative shape of the balance wheel, b) getting hold of a metal alloy that has a thermal expansion coefficient of less than 25 ppm/° C. and is able to be in an at least partly amorphous state when it is heated to a temperature between its glass transition temperature and its crystallization temperature, c) putting the metal alloy into the mold, the metal alloy being heated to a temperature between its glass transition temperature and its crystallization temperature so as to be hot-molded and to form a balance wheel, d) cooling the metal alloy to obtain a balance wheel made of the metal alloy, e) releasing the balance wheel obtained in step d) from its mold.

IPC 8 full level
G04B 17/22 (2006.01); **G04B 18/00** (2006.01)

CPC (source: CN EP US)
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Cited by
CN115537598A; CH716669A1; CN115537599A

Designated contracting state (EPC)
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EP 3502787 A1 20190626; **EP 3502787 B1 20201118**; CN 109960137 A 20190702; CN 109960137 B 20210409; CN 112965355 A 20210615; EP 3796102 A1 20210324; EP 3796102 B1 20220420; JP 2019113533 A 20190711; JP 6770049 B2 20201014; US 11307535 B2 20220419; US 11640140 B2 20230502; US 2019196408 A1 20190627; US 2022163923 A1 20220526

DOCDB simple family (application)
EP 17210299 A 20171222; CN 201811455309 A 20181130; CN 202110265760 A 20181130; EP 20201790 A 20171222; JP 2018216249 A 20181119; US 201816150524 A 20181003; US 202217669476 A 20220211