

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)  
**G04B 17/063** (2013.01 - CN US); **G04B 17/066** (2013.01 - CN US); **G04B 17/222** (2013.01 - CN EP US); **G04B 17/227** (2013.01 - CN EP US); **G04B 18/006** (2013.01 - CN EP US); **G04D 3/0038** (2013.01 - CN); **B22C 9/00** (2013.01 - CN EP US); **B22D 15/00** (2013.01 - CN EP US); **B22D 25/026** (2013.01 - CN EP US); **B22D 27/04** (2013.01 - CN EP US); **C22C 14/00** (2013.01 - CN EP US); **C22C 16/00** (2013.01 - CN EP US); **C22C 21/00** (2013.01 - CN EP US); **C22C 38/08** (2013.01 - CN EP US); **G04C 3/04** (2013.01 - CN US)

Cited by  
CN115537598A; CH716669A1; CN115537599A

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**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