

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

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER UNRUH FÜR UHREN

Title (fr)  
PROCEDE DE FABRICATION D'UN BALANCIER POUR PIECE D'HORLOGERIE

Publication  
**EP 3796102 B1 20220420 (FR)**

Application  
**EP 20201790 A 20171222**

Priority  
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• EP 17210299 A 20171222

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); **B22C 9/00** (2006.01); **B22D 15/00** (2006.01); **B22D 25/02** (2006.01); **B22D 27/04** (2006.01); **C22C 14/00** (2006.01); **C22C 16/00** (2006.01); **C22C 21/00** (2006.01); **C22C 38/08** (2006.01)

CPC (source: CN EP US)  
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