

Title (en)
Oscillating mass

Title (de)
Schwungmasse

Title (fr)
Masse oscillante

Publication
EP 2482142 A1 20120801 (FR)

Application
EP 11152381 A 20110127

Priority
EP 11152381 A 20110127

Abstract (en)
The weight has an oscillating sector (1), and a hub provided with a cylindrical bore (4), where the weight is formed by molding a plastic material charged with heavy metal particles and fibers. The fibers are formed between 2 and 3.5 percentages of total weight of the charged material, where density of the charged material is greater than 8. The heavy metal is tungsten. The plastic material is polyamide-12. The fibers are glass fibers and carbon fibers. The plastic material, heavy metal and the fibers form a mixture that is made by mixing Grilamid-TR(RTM: high-performance polyamides) and Gravi-Tech(RTM: polymer-metal composites) fibers.

Abstract (fr)
Procédé de fabrication d'une masse oscillante pour remontoir automatique de montre par moulage d'une matière plastique chargée de particules d'un métal lourd. De plus, la matière plastique est encore chargée de fibres, lesdites fibres constituant entre 1,5% et 7% du poids total de la matière plastique chargée, et la densité de la matière plastique chargée est supérieure à 8.

IPC 8 full level
G04B 5/16 (2006.01)

CPC (source: EP US)
G04B 5/165 (2013.01 - EP US); **Y10T 29/49579** (2015.01 - EP US)

Citation (applicant)
US 3942317 A 19760309 - SCHLUEP JEAN-PIERRE

Citation (search report)
• [A] US 3942317 A 19760309 - SCHLUEP JEAN-PIERRE
• [A] CH 249417 A 19470630 - BONDY S A [CH]
• [A] DE 1944849 A1 19700423 - MEYER FA

Cited by
EP4001356A1; WO2022111936A1; CN105074584A; RU2634891C2; WO2014154705A3; DE202014002531U1; WO2014154705A2; US9862129B2; EP4276143A1; EP3674816A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 2482142 A1 20120801; EP 2482142 B1 20130828; CN 102621869 A 20120801; CN 102621869 B 20140709; HK 1174403 A1 20130607; JP 2012154925 A 20120816; JP 5972580 B2 20160817; RU 2012102758 A 20130810; RU 2587565 C2 20160620; US 2012195173 A1 20120802; US 9004749 B2 20150414

DOCDB simple family (application)
EP 11152381 A 20110127; CN 201210019300 A 20120121; HK 13101319 A 20130130; JP 2012006530 A 20120116; RU 2012102758 A 20120126; US 201213353476 A 20120119