

Title (en)  
Barrel spring and arbour

Title (de)  
Federwelle und Zugfeder

Title (fr)  
Arbre et ressort de barillet

Publication  
**EP 2657794 B1 20170201 (FR)**

Application  
**EP 12165537 A 20120425**

Priority  
EP 12165537 A 20120425

Abstract (en)  
[origin: EP2657794A1] The method involves machining or turning a complete external contour of a barrel arbor (1) in a touching-up operation of a drawn bar (50) about a touching-up axis (DC) parallel to or merged with a drawing direction. A groove (33) is machined in the touching-up operation, where width of the groove is adjusted along direction of the touching-up axis to hold an inner coil of a mainspring in the direction of the touching-up axis on a point on revolution of the groove and the groove is tangent to a profile in shape of a snail in a zone relative to the axis of revolution of the groove. The touching-up operation is a bar turning operation.

IPC 8 full level  
**G04B 1/16** (2006.01); **G04B 1/18** (2006.01)

CPC (source: EP RU US)  
**G04B 1/16** (2013.01 - EP US); **G04B 1/18** (2013.01 - EP US); **G04B 1/16** (2013.01 - RU); **G04B 1/18** (2013.01 - RU);  
**Y10T 29/49581** (2015.01 - EP US)

Cited by  
EP2977827A1; EP3872576A1; US9513601B2; US11782386B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 12165537 A 20120425**; CN 201310148320 A 20130425; EP 13163792 A 20130415; HK 14103820 A 20140422; JP 2013092016 A 20130425; RU 2013119128 A 20130424; US 201313869480 A 20130424