

Title (en)  
SLIDING LAYER FOR A BARREL SPRING MADE OF A COMPOSITE MATERIAL

Title (de)  
GLEITSCHICHT FÜR UHRZUGFEDER AUS VERBUNDMATERIAL

Title (fr)  
REVÊTEMENT ANTIFRICTION POUR RESSORT DE BARILLET EN MATÉRIAU COMPOSITE

Publication  
**EP 2788821 B1 20190410 (FR)**

Application  
**EP 12794714 A 20121130**

Priority  

- EP 11192835 A 20111209
- EP 2012074139 W 20121130
- EP 12794714 A 20121130

Abstract (en)  
[origin: EP2602671A1] The spring (1) has a coating (3) including a thermoplastic or thermosetting polymer, where the spring is made of a material including a polymer matrix containing fibers. The thermoplastic or thermosetting polymer includes a slow polymerization type epoxy resin, where the volume fraction of fibers in the polymer matrix is between 30 percent and 75 percent, preferably between 45 percent and 55 percent. The fibers are S or S2 type glass fibers, where the thickness of the coating is between 3 mm and 20 mm, or equal to a quarter of the width of a fiber. An independent claim is also included for a method for manufacturing a barrel spring.

IPC 8 full level  
**G04B 1/14** (2006.01)

CPC (source: EP US)  
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