

Title (en)  
SHOCK-ABSORBING RIDING STIRRUP

Title (de)  
STOSSABSORBIERENDER STEIGBÜGEL FÜR DEN REITSPORT

Title (fr)  
ÉTRIER D'ÉQUITATION AMORTISSANT

Publication  
**EP 1896360 A2 20080312 (FR)**

Application  
**EP 06709090 A 20060110**

Priority  
• FR 2006000083 W 20060110  
• FR 0500691 A 20050124

Abstract (en)  
[origin: WO2006077307A2] The invention relates to a riding stirrup, especially provided with a foot assisting mechanism, said stirrup absorbing shocks and vibrations transmitted to the muscles, bones, tendons and joints of the rider. The inventive riding stirrup is ergonomically innovative in terms of the base thereof, and has an innovative anti-blocking system in the form of the structure thereof complemented by a lateral abutment. Said riding stirrup also comprises a supporting structure (1) ending in a square (7) carrying an arrangement (8, 5) which works in rotation on the square (7) in order to form a mini torsion bar, the amplitude of which does not exceed 20 degrees, and an arrangement (3, 6) for actuating the mini torsion bar using the foot, said arrangement enclosing the mini torsion bar. Said system accompanies the foot of the rider and replaces it in the horizontal position by means of a vertical force applied to the front or the rear of the base (3). Spheres (4) are received at defined points between the base (3) and the top of the torsion bar. When a vertical force is applied to the base (3), the spheres are compressed and rise back up, creating a flexible back-and-forth movement which is well dosed for the foot. Said spheres are at a distance from each other, and generate two functions independent of the swinging of the foot to the right and to the left. Said spheres have a hardness and different colours that can be adapted to the weight of the rider. An embodiment of the structure which is 3/4 closed by a flexible abutment creates an anti-blocking safety stirrup. The invention is suitable for riders who often use the stirrups.

IPC 8 full level  
**B68C 3/00** (2006.01); **B68C 3/02** (2006.01)

CPC (source: EP US)  
**B68C 3/0016** (2013.01 - EP US); **B68C 3/025** (2013.01 - EP US); **B68C 2003/0041** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006077307A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2881127 A1 20060728; FR 2881127 B1 20070504**; AT E489327 T1 20101215; DE 602006018455 D1 20110105; EP 1896360 A2 20080312; EP 1896360 B1 20101124; US 2008104934 A1 20080508; US 7874131 B2 20110125; WO 2006077307 A2 20060727; WO 2006077307 A3 20060921

DOCDB simple family (application)  
**FR 0500691 A 20050124**; AT 06709090 T 20060110; DE 602006018455 T 20060110; EP 06709090 A 20060110; FR 2006000083 W 20060110; US 81447006 A 20060110