

Title (en)

METHOD TO PREVENT RUPTURE OF STEEL SPRING

Title (de)

VERFAHREN ZUR VERHINDERUNG DES BRUCHS VON STAHLFEDERN

Title (fr)

PROCÉDÉ POUR EMPÊCHER LA RUPTURE DE RESSORT EN ACIER

Publication

EP 3135553 B1 20200923 (EN)

Application

EP 16174694 A 20160616

Priority

CN 201510538082 A 20150828

Abstract (en)

[origin: EP3135553A1] A vertical backstop for preventing steel spring break, wherein the vertical backstop (1) is located in the steel spring (2), characterized in that the vertical backstop (1) comprises a rubber main body (11), a rubber convex platform (12) and a pedestal (13), wherein a revolve solid shaped rubber convex platform (12) is provided above the rubber main body (11), the rubber main body (11) is provided with an annular straight section and an annular arc section (115), the rubber convex platform (12) is connected with the rubber main body (11) via the annular arc section (115), a pedestal (13) is provided underneath the rubber main body (11), and the bottom of the rubber main body (11) is provided with a cavity (114), wherein the rubber main body (11), the rubber convex platform (12) and the pedestal (13) are an entirety.

IPC 8 full level

B61F 5/30 (2006.01)

CPC (source: EP)

B61F 5/301 (2013.01); **B61F 5/305** (2013.01)

Citation (examination)

- CN 102943835 B 20141224 - ZHUZHOU TIMES NEW MAT TECH CO
- DE 29610365 U1 19960919 - PHOENIX AG [DE]

Cited by

CN107901939A

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

DOCDB simple family (publication)

EP 3135553 A1 20170301; **EP 3135553 B1 20200923**; CN 106476838 A 20170308; CN 106476838 B 20180907

DOCDB simple family (application)

EP 16174694 A 20160616; CN 201510538082 A 20150828