

Title (en)

Box of intermediate plates having an elastic plate of adjustable elasticity

Title (de)

Kasten aus Zwischenplatten mit einer elastischen Platte mit einstellbarer Elastizität

Title (fr)

Boîte de plaques intermédiaires dotées d'une plaque élastique d'élasticité réglable

Publication

EP 2180096 A3 20131204 (EN)

Application

EP 09380171 A 20091022

Priority

ES 200802998 A 20081023

Abstract (en)

[origin: EP2180096A2] Box of intermediate plates having an elastic plate of adjustable elasticity, composed of an intermediate cap plate or cover (2), an intermediate protection plate or base (3), and an adjustable intermediate elastic plate (4), placed between them with a breathing zone (9) in its perimeter to allow an expansion. The cover (2) is provided with flanges (5) to be fitted into some accommodations (6) disposed on the base (3), and lugs (7) for the pre-assembly of the base plate. The cover (2) and the base (3) have accommodations (8) and (11) to fix the elastic plate (4) with lugs (12). The intermediate elastic plate (4) has hollows (13), wave shapes consisting of ridges (14) and valleys (15), its perimeter zone (16) can be smooth or nonexistent, and its lower face is provided with lightening cavities (17) in the shape of mounting holes.

IPC 8 full level

E01B 9/68 (2006.01); **E01B 9/62** (2006.01)

CPC (source: EP ES)

E01B 9/62 (2013.01 - EP); **E01B 9/683** (2013.01 - EP ES)

Citation (search report)

- [XYI] DE 1204697 B 19651111 - CONTINENTAL GUMMI WERKE AG
- [Y] WO 9813550 A1 19980402 - KACZMAREK ANDRZEJ [PL], et al
- [A] JP 2001355201 A 20011226 - RAILWAY TECHNICAL RES INST, et al
- [A] GB 382698 A 19321103 - FERDINAND BARTELS
- [A] US 1785251 A 19301216 - HARRY ETHERIDGE

Cited by

US11549219B2; WO2018192949A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2180096 A2 20100428; EP 2180096 A3 20131204; ES 2373387 A1 20120203; ES 2373387 B1 20120914

DOCDB simple family (application)

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