

Title (en)
SLIDING DEVICE FOR DRAWER

Title (de)
GLEITVORRICHTUNG FÜR SCHUBLADE

Title (fr)
DISPOSITIF COULISSANT POUR TIROIR

Publication
EP 3738470 A4 20211006 (EN)

Application
EP 18900292 A 20181228

Priority
• KR 20180003324 A 20180110
• KR 2018016806 W 20181228

Abstract (en)
[origin: EP3738470A1] The present disclosure relates to a sliding device for a drawer capable of reinforcing rigidity while reducing noise during operation by mixing and using a plurality of slide balls having different tensile strengths, and includes: a fixed rail fastened and fixed to a main body, a movable rail fastened and fixed to a storage body, and sliding on the fixed rail, an intermediate rail disposed between the fixed rail and the movable rail to guide the sliding movement of the movable rail, and ball assemblies disposed between the intermediate rail and the fixed rail and between the intermediate rail and the movable rail, respectively to move to be slidable, and provided with a plurality of slide balls having different tensile strengths, the slide ball having a large tensile strength being disposed at the outermost side thereof. According to such a configuration, it is possible to reduce the noise using the slide ball having the low tensile strength as a whole, and to reinforce rigidity using the slide ball having the large tensile strength in a portion to which a shock load is applied.

IPC 8 full level
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CPC (source: EP KR US)
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Citation (search report)
• [XAI] US 9357843 B2 20160607 - JÄHRLING PETER [DE], et al
• [XA] US 5417496 A 19950523 - HOBBS JAMES D [US]
• [XAI] DE 3148933 A1 19830623 - KIEKERT GMBH CO KG [DE]
• [A] US 2013193824 A1 20130801 - KOENIG HUBERT [DE], et al
• See references of WO 2019139290A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3738470 A1 20201118; EP 3738470 A4 20211006; CN 213664408 U 20210713; KR 20190085332 A 20190718; US 2021068540 A1 20210311; WO 2019139290 A1 20190718

DOCDB simple family (application)
EP 18900292 A 20181228; CN 201890001463 U 20181228; KR 20180003324 A 20180110; KR 2018016806 W 20181228; US 201816959913 A 20181228