

Title (en)
Device for separating flat objects using balls

Title (de)
Trennvorrichtung mit Kugeln für flache Gegenstände

Title (fr)
Dispositif de séparation à billes d'objets plats

Publication
EP 2210835 B1 20111123 (FR)

Application
EP 10150934 A 20100118

Priority
FR 0950377 A 20090122

Abstract (en)
[origin: EP2210835A1] The device (16) has a flexible bag (18) comprising balls (20) and co-operating with a motorized belt (26) for separating flat articles such as mailpieces (12), one-by-one by deformation of the bag while conveying the flat articles downstream. The bag has a parallelepiped shape with a trapezoid section, and includes two compartments maintained by first and second suspension arms (22A, 22B) and a third suspension arm. Each ball has a diameter less than 10 mm, where the ball is made of material e.g. metal, glass and elastomer. The flexible bag is made of a technical textile material i.e. nylon.

IPC 8 full level
B65H 3/52 (2006.01); **B65H 3/04** (2006.01); **B65H 3/06** (2006.01)

CPC (source: EP US)
B65H 1/06 (2013.01 - EP US); **B65H 3/042** (2013.01 - EP US); **B65H 3/063** (2013.01 - EP US); **B65H 3/523** (2013.01 - EP US); **B65H 2301/42322** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US)

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

DOCDB simple family (publication)
EP 2210835 A1 20100728; **EP 2210835 B1 20111123**; AT E534598 T1 20111215; FR 2941221 A1 20100723; US 2010183421 A1 20100722; US 8205871 B2 20120626

DOCDB simple family (application)
EP 10150934 A 20100118; AT 10150934 T 20100118; FR 0950377 A 20090122; US 69066610 A 20100120