

Title (en)

Article transfer device and packaging system provided with same

Title (de)

Artikeltransportvorrichtung und Verpackungssystem damit

Title (fr)

Dispositif de transfert d'articles et système d'emballage fourni avec celui-ci

Publication

**EP 2489596 B1 20140402 (EN)**

Application

**EP 12155833 A 20120216**

Priority

JP 2011030773 A 20110216

Abstract (en)

[origin: EP2489596A2] An article transfer device is provided with a funnel-shaped structure and a high pressure air supply pipe. The funnel-shaped structure is provided with an upper end opening adapted to receive the articles being dropped in from above and a lower end opening adapted to allow the articles to drop through to the form-fill-seal machine. An inner space is defined within the funnel-shaped structure between the openings. The upper part of the inner space has a greater cross-sectional area than the cross-sectional area of the lower part of the inner space. A plurality of air ejection holes are formed in an inner peripheral surface of the funnel-shaped structure surrounding the inner space. The plurality of air ejection holes are arranged with respect to one another defining a helical shape pattern about the funnel-shaped structure. Gaseous material is spouted out from the high pressure air supply pipe and into the inner space through the plurality of air ejection holes.

IPC 8 full level

**B65B 1/16** (2006.01); **B65B 1/32** (2006.01); **B65B 9/20** (2012.01); **B65B 51/30** (2006.01)

CPC (source: EP US)

**B65B 1/16** (2013.01 - EP US); **B65B 1/32** (2013.01 - EP US); **B65B 9/2028** (2013.01 - EP US); **B65B 9/207** (2013.01 - EP US); **B65B 51/306** (2013.01 - EP US)

Cited by

CN115872002A; CN103991587A; US12006080B2; WO2021123487A1

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DOCDB simple family (publication)

**EP 2489596 A2 20120822**; **EP 2489596 A3 20130417**; **EP 2489596 B1 20140402**; AU 2012100175 A4 20120315; CN 202557819 U 20121128; JP 2012166836 A 20120906; JP 5666936 B2 20150212; US 2012204522 A1 20120816

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