

Title (en)

Method and device for eliminating foreign bodies from a material flow

Title (de)

Verfahren und Einrichtung zur Fremdkörperabscheidung aus einem Materialstrom

Title (fr)

Procédé et dispositif d'élimination de corps étrangers d'un flux de matière

Publication

EP 1591172 B1 20100224 (DE)

Application

EP 05004869 A 20050305

Priority

DE 102004020776 A 20040427

Abstract (en)

[origin: EP1591172A1] The method involves conveying a portion of a material from a material flow into an area of a foreign-body detection device (16) in form of a partial material flow. Foreign bodies are identified by the detection device in the partial material flow based on a characteristic e.g. color. The bodies are removed from the partial material flow that is formed by a separation step by using an air flow upstream from the device. An independent claim is also included for an apparatus for separation of foreign bodies from a material flow.

IPC 8 full level

B07C 5/00 (2006.01); **B65G 53/60** (2006.01); **A24B 1/04** (2006.01); **A24C 5/39** (2006.01); **B07B 4/00** (2006.01); **B07B 4/02** (2006.01); **B07B 7/00** (2006.01); **B07B 7/01** (2006.01); **B07B 9/02** (2006.01); **B07B 11/00** (2006.01); **B07C 5/36** (2006.01)

CPC (source: EP US)

A24B 1/04 (2013.01 - EP US); **A24C 5/396** (2013.01 - EP US); **B07B 4/02** (2013.01 - EP US); **B07B 7/00** (2013.01 - EP US); **B07C 5/365** (2013.01 - EP US)

Cited by

EP2451591A4; CN102695429A; WO2011034602A1; US8893723B2; WO2011083070A3; WO2014201182A1; EP2451591A1; EP2521462A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1591172 A1 20051102; EP 1591172 B1 20100224; AT E458558 T1 20100315; CN 1689715 A 20051102; CN 1689715 B 20100602; DE 102004020776 A1 20051124; DE 102004020776 B4 20070308; DE 502005009063 D1 20100408; JP 2005312451 A 20051110; JP 4707444 B2 20110622; PL 1591172 T3 20100730; US 2005236306 A1 20051027; US 7335847 B2 20080226

DOCDB simple family (application)

EP 05004869 A 20050305; AT 05004869 T 20050305; CN 200510067059 A 20050427; DE 102004020776 A 20040427; DE 502005009063 T 20050305; JP 2005127965 A 20050426; PL 05004869 T 20050305; US 10351805 A 20050412