

Title (en)  
Self-propelled screen

Title (de)  
Selbstangetriebener Sieb

Title (fr)  
Tamis autopropulsé

Publication  
**EP 2359944 A3 20130116 (EN)**

Application  
**EP 11153539 A 20110207**

Priority  
• JP 2010039262 A 20100224  
• JP 2010151181 A 20100701

Abstract (en)  
[origin: EP2359944A2] A self-propelled screen for sorting materials according to grain size includes: a truck device (10); a body frame (11) provided substantially above the truck body (10); a discharge conveyor (2) tiltably coupled to the body frame (11); a screening device (3) coupled tiltably relative to a conveyor frame (20) so as to be positioned above the discharge conveyor (2); a screen angle changing cylinder (38) coupled at one end thereof to the body frame (11) and at another end to the conveyor frame (20); and a screening device opening/closing cylinder (65) coupled at one end thereof to a screening device frame (44) and at another end to the conveyor frame (20). This configuration makes it possible to maintain a constant clearance between the screening device and the conveyor independently of an inclination angle of the screening device, and enables easy access to a bottom deck of the screening device and hence improves maintainability.

IPC 8 full level  
**B07B 1/00** (2006.01)

CPC (source: EP)  
**B07B 1/005** (2013.01)

Citation (search report)  
• [I] WO 0226403 A1 20020404 - EXTEC IND PLC [GB], et al  
• [I] US 2003146315 A1 20030807 - BOAST IAN [GB]

Cited by  
US11247237B2; US11691179B2; US2023166295A1; US11992861B2; EP3747555A1; EP3747554A1; WO2021213605A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2359944 A2 20110824; EP 2359944 A3 20130116**; CN 102189077 A 20110921

DOCDB simple family (application)  
**EP 11153539 A 20110207**; CN 201110043931 A 20110222