Title (en)

SCREENING DEVICE WITH FILTER ROLLERS FOR PREVENTING OVERSIZED PARTICLES FROM GETTING STUCK AND FILTER ROLLER

Title (de)

SIEBVORRICHTUNG MIT SIEBWALZEN ZUR VERHINDERUNG EINES VERKLEMMENS VON ÜBERKORN UND SIEBWALZE

Title (fr)

DISPOSITIF DE TAMISAGE COMPRENANT DES ROULEAUX DE TAMISAGE DESTINE A EMPECHER LE BLOCAGE DES TROP GROS GRAINS ET ROULEAU DE TAMISAGE

Publication

EP 3017879 B1 20190206 (DE)

Application

EP 15193285 A 20151105

Priority

DE 202014105361 U 20141107

Abstract (en)

[origin: US2016129476A1] A screen device for sorting screening material into one or more fine grain fractions and one or more oversize grain fractions. The screen device includes a frame and a roller screen including screen rollers which are arranged, such that they can be rotary-driven about a roller axis each, next to each other and which are supported on the frame and which each comprise a roller body and one or more screen structures which protrude radially relative to the roller body. There is a fine grain screen gap between the roller bodies of respectively adjacent screen rollers, through which a fine grain fraction falls, while an oversize grain fraction is conveyed on the roller screen in the axial direction of the rollers when the screen rollers are rotary-driven. The roller body of at least one of the screen rollers widens radially in the axial direction of the rollers in an axial widening portion and the width of the fine grain screen gap which the widening roller body forms with the roller body of an adjacent screen roller decreases in the axial direction of the rollers along the widening portion.

IPC 8 full level

B07B 1/14 (2006.01); **B07B 1/15** (2006.01)

CPC (source: EP US)

B07B 1/14 (2013.01 - US); **B07B 1/145** (2013.01 - EP US); **B07B 1/15** (2013.01 - EP US)

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

DOCDB simple family (publication)

DE 202014105361 U1 20141118; EP 3017879 A1 20160511; EP 3017879 B1 20190206; ES 2732898 T3 20191126; PL 3017879 T3 20190830; US 2016129476 A1 20160512; US 9731326 B2 20170815

DOCDB simple family (application)

DE 202014105361 U 20141107; EP 15193285 A 20151105; ES 15193285 T 20151105; PL 15193285 T 20151105; US 201514933418 A 20151105