

Title (en)
Screening device

Title (de)
Siebvorrichtung

Title (fr)
Dispositif de tamisage

Publication
EP 1120170 B1 20040616 (DE)

Application
EP 01101221 A 20010119

Priority
DE 10003172 A 20000125

Abstract (en)
[origin: US2001017275A1] A sieving device and the operation of a sieving device are proposed. The sieving device has a supporting frame which can be made to vibrate and a vibration frame which is held so as to be able to vibrate freely in relation to said supporting frame. A simple, compact design which provides good sieving and conveying performance is achieved in that the vibration frame is spring-elastically coupled to the supporting frame by helical springs, with the main spring axes of the spring elements extending in the direction of vibration of the tension waves. Furthermore, guiding elements for movable bearing arrangement of the vibration frame on the supporting frame are provided. The sieving device is operated in particular at a vibration frequency of at least 850 vibrations per minute at an average speed of approx. 11 m/s and at an average acceleration of the vibration frame relative to the supporting frame of approx. 2.2 m/s².

IPC 1-7
B07B 1/46; **B07B 1/28**

IPC 8 full level
B07B 1/28 (2006.01); **B07B 1/46** (2006.01); **B07B 1/48** (2006.01)

CPC (source: EP US)
B07B 1/4609 (2013.01 - EP US); **B07B 1/48** (2013.01 - EP US); **B07B 1/485** (2013.01 - EP US)

Cited by
CN106179951A; CN106076821A; CN106076822A; CN103721937A; CN106238319A; DE202012010106U1; DE202013008780U1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
US 2001017275 A1 20010830; **US 6508364 B2 20030121**; AT E269173 T1 20040715; DE 10003172 C1 20010628; DE 50102566 D1 20040722; EP 1120170 A2 20010801; EP 1120170 A3 20020821; EP 1120170 B1 20040616

DOCDB simple family (application)
US 76821601 A 20010124; AT 01101221 T 20010119; DE 10003172 A 20000125; DE 50102566 T 20010119; EP 01101221 A 20010119