

Title (en)

Screen and pressure screening device for fibre suspensions

Title (de)

Sieb zum sortieren von sowie Drucksortierer für Fasersuspensionen

Title (fr)

Tamis et appareil de tamisage sous pression pour suspensions fibreuses

Publication

EP 0905309 B1 20011128 (DE)

Application

EP 98122514 A 19950203

Priority

- EP 98122514 A 19950203
- EP 95907639 A 19950203

Abstract (en)

[origin: EP0905309A2] A sieve, for sorting a fibre suspension in pressure sorting machines with a rotating rotor, is formed as a symmetrical cylinder about a shaft and it has, to sort the suspension, an inflow and an opposite outflow side. The rotor has, extending around its circumference and for generating positive and negative pressure pulses in the suspension, revolving profiled pieces approaching the inflow side. On the sieve inflow side round its circumference are grooves running parallel to the shaft, where at least one passage opens into each and where each has a floor, a front and a rear wall as viewed from the rotation direction of the profiled pieces. The passage opens into the floor and the front wall is more steeply tilted, i.e. at an angle between 40 and 70 deg., w.r.t. sieve circumference than the rear. In a section right angles to the shaft (34) the groove (400) has a V-shaped cross-section. Also claimed is a sorter with a casing and the fixed sieve separating an enclosed flow space from an outer product chamber. Together with inflow side, the rotor rotating outer surface bounds the flow space which, along the shaft, has an inlet for the suspension at one end and a waste outlet at the other. The profiled pieces each have a forward lying first side-piece for driving the suspension forwards and behind it a second piece lying in the opposite direction for sucking fluid back from the outer chamber.

IPC 1-7

D21D 5/16; **D21D 5/02**

IPC 8 full level

D21D 5/02 (2006.01); **D21D 5/16** (2006.01)

CPC (source: EP)

D21D 5/026 (2013.01); **D21D 5/16** (2013.01)

Cited by

EP1449957A1; US7931779B2

Designated contracting state (EPC)

AT DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0905309 A2 19990331; **EP 0905309 A3 19990519**; **EP 0905309 B1 20011128**; AT E181120 T1 19990615

DOCDB simple family (application)

EP 98122514 A 19950203; AT 95907639 T 19950203