

Title (en)

Pulper for comminuting and suspending papermaking material

Title (de)

Stoffflöser zur Zerkleinerung und Suspendierung von Papierstoff

Title (fr)

Pulpeur pour désintégrer et mettre en suspension des matériaux pour pâte à papier

Publication

EP 1679403 A1 20060712 (DE)

Application

EP 05023603 A 20051028

Priority

DE 202005000332 U 20050111

Abstract (en)

The sieve screen (3) has openings (5) with shapes other than circular. The openings are: oval, especially elliptical. They are alternatively slots and/or wavy. The sieve is rotationally-symmetrical. The length (L) of each sieve opening relative to the radius (6) running through the sieve center includes an angle between -80[deg] and +80[deg], preferably between -45[deg] and +45[deg]. The leading edge (10) of the rotor blade runs at an acute angle relative to the length of the sieve openings. This angle is preferably between -45[deg] and +45[deg]. The sieve opening length-to-width ratio is preferably at least 3. Maximum opening width (B) is 4-20 mm. Maximum length (L) is 10-100 mm. The openings are milled, stamped, produced by laser, or by steel-casting. The sieve is a combination of a sieve plate (11) with openings, and a support plate (12). The support plate is a frame- or coarse sieve construction. Its outer contours correspond with those of the plate; its openings are larger than those of the sieve.

IPC 8 full level

D21B 1/34 (2006.01); **D21D 5/04** (2006.01); **D21D 5/16** (2006.01)

CPC (source: EP)

D21B 1/345 (2013.01); **D21D 5/04** (2013.01); **D21D 5/16** (2013.01)

Citation (search report)

- [Y] EP 1357222 A1 20031029 - VOITH PAPER PATENT GMBH [DE]
- [Y] EP 1398410 A1 20040317 - KADANT LAMORT [FR]
- [Y] DE 10138860 A1 20030227 - VOITH PAPER PATENT GMBH [DE]
- [Y] FR 1047321 A 19531214

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DOCDB simple family (application)

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