

## 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

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## CPC (source: EP)

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## 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

## Cited by

EP2568078A1; CN108625213A; CN107476108A; CN112004967A; CN102575421A; US11174101B2; US12012694B2; WO2011045094A3; WO2019206530A1; DE202009017951U1; DE102009045613A1; WO2011045094A2; US8991733B2; DE102016202586A1; DE202016008505U1; WO2018114058A1; EP3102508B1

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## DOCDB simple family (application)

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