

Title (en)
Process for wet screening fibrous suspensions

Title (de)
Verfahren zum Nasssieben von Faserstoffsuspensionen

Title (fr)
Procédé de tammissage humide de suspensions fibreuses

Publication
EP 1357222 A1 20031029 (DE)

Application
EP 03003474 A 20030215

Priority
DE 10217926 A 20020423

Abstract (en)
In a waste paper or carton recovery process pre-used material is chopped and soaked in water to form a fibrous suspension (S) from which foreign bodies are removed by sieve (1) filtration. The sieve apertures (3) are esp. elongated holes between 1 and 8 mm wide, pref. 1-3 mm. The fibres are driven through the apertures by the action of a wiper blade (4). The sieve is a cylindrical drum with an interior feed of suspended fibres used in association with a print pre-sorting assembly. The hole (3) ratio of length to width is pref. between 2 and 10. The holes are approx. separated by intervals of 1-6 mm. The blade sweeps the holes at an angle of approx. 75degrees to the direction of travel.

Abstract (de)
Das Verfahren dient zum Nasssieben von Faserstoffsuspensionen (S). Dabei wird ein Sieb (1) verwendet, dessen Sieböffnungen (3) als Langlöcher ausgebildet sind mit einer Lochweite (W) zwischen 1 und 8 mm, vorzugsweise zwischen 1 und 3 mm. In besonderen Ausführungsformen werden Siebe mit Langlöchern verwendet, die in Bewegungsrichtung (5) eines der Siebfreihaltung dienenden Räumers (4) ausgerichtet sind. <IMAGE>

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Citation (search report)

- [X] EP 0455312 A2 19911106 - BLACK CLAWSON CO [US]
- [X] DE 29714914 U1 19971016 - VOITH SULZER STOFFAUFBEREITUNG [DE]
- [A] DE 19815449 A1 19991014 - VOITH SULZER PAPIERTECH PATENT [DE]
- [A] US 6165323 A 20001226 - SHEARER JAY K [US]
- [A] WO 9626315 A1 19960829 - AHLSTROEM OY [FI], et al

Cited by
EP2290160A1; EP1679403A1

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