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[Continued on next page]

(54) Title: A REFINER AND A METHOD FOR REFINING PULP

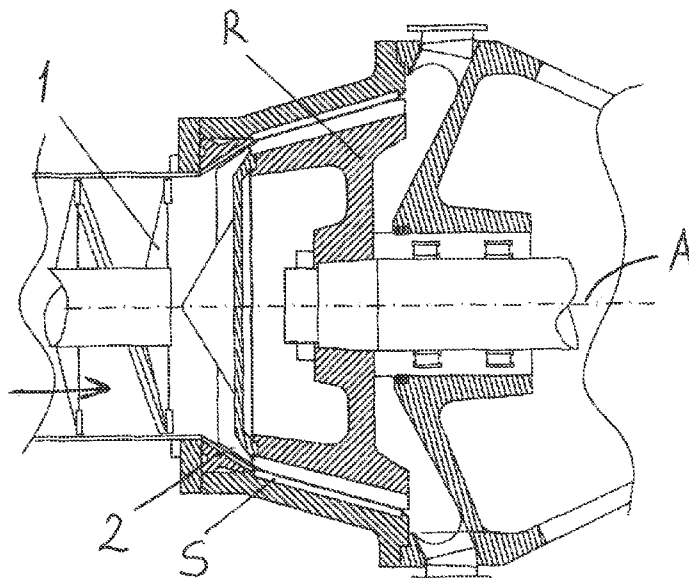


Fig. 1

(57) Abstract: A refiner comprises a rotor (R) arranged rotatable around an axis inside a stator (S) and comprising blades arranged on the circumference of the rotor, opposite the stator, wherein an annular refining space is formed between the rotor and the stator, extending in the axial direction and having a blade clearance between the blades and the inner surface of the stator (S). The feeding means (1) of the refiner are arranged to feed high-consistency pulp to the refining space. The blade clearance is 0.5 to 5 mm, advantageously 1 to 3 mm.

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# INTERNATIONAL SEARCH REPORT

International application No  
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## A. CLASSIFICATION OF SUBJECT MATTER

INV. D21B1/12 D21B1/14 D21B1/26 D21D1/22 B02C7/12  
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

D21B D21D B02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                    | Relevant to claim No. |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
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| Y         | the whole document                                                                                                                                                                                                                    | 2-4,7                 |
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| Y         | DE 195 41 892 C1 (VOITH SULZER<br>STOFFAUFBEREITUNG [DE])<br>21 November 1996 (1996-11-21)<br>column 2, line 33 - column 2, line 61;<br>figures 1,2                                                                                   | 3,4                   |
|           | -----<br>-/--                                                                                                                                                                                                                         |                       |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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International application No  
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| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                       |                       |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------|
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Information on patent family members

International application No

PCT/FI2010/050009

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)                                                                                          | Publication<br>date                                                                            |
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