

## Title (en)

Rotor with wear protector for a pulper

## Title (de)

Rotor mit einem Verschleiss-Schutz für einen Stoffauflöser

## Title (fr)

Rotor avec protecteur anti-usure pour un pulpeur

## Publication

**EP 1036877 A1 20000920 (DE)**

## Application

**EP 99104475 A 19990305**

## Priority

EP 99104475 A 19990305

## Abstract (en)

The rotor (10), at an assembly for the preparation of paper pulp, has a number of rotor blades (14) to agitate and recirculate a paper fiber suspension in a vessel. The leading surface (20) of each blade (14), in the direction of rotation (18), carries a wear protection shrouding (42) on a release mounting. At least the leading section of the front surface (20) is wholly covered by the protective shrouding (42) at the free end (30) of the rotor blade (14). The side edges of the protective shrouding extend at least partially over the front surface (20) of the rotor blade (14), and the free end (30) of the rotor blade is covered by the shrouding (42) which extends over it. The projecting end of the shrouding (42), over the free end of the rotor blade (14), is angled downwards towards the under side of the rotor blade (14) facing the base of the vessel. The shrouding (42) is secured to the rotor blade (14) by at least one screw bolt (50,52,54) through passage openings (24,26,28) from the rear side (22) of the blade (14), secured by a self-locking nut (56,58,60), so that the shrouding (42) can be fitted and removed. At least one centering pin can be at the rear side of the shrouding (42) or the front side of the blade (14) to fit into a corresponding hole. The edge of the protective shrouding (42) has a projecting rim to fit round the rotor blade (14) which supports it from below. The contour of the front side of the shrouding (42) is at least partially chamfered. At least one side edge of the protective shrouding (42) can have a number of recesses to give movement to the fiber suspension being stirred by the rotor (10). The rear side of the shrouding can rest on a support between it and the rotor blade. The leading side of the protective shrouding (42) is mounted at an angle to the base of the vessel for the fiber suspension.

## Abstract (de)

Die Erfindung betrifft einen Rotor (10) für eine Papierstoffaufbereitungsmaschine. Der Rotor weist mehrere Rotorblätter (14) zum Umwälzen einer in einem Behälter der Papierstoffaufbereitungsmaschine enthaltenen Stoffsuspension auf. An der in Rotationsrichtung (18) des Rotors (10) gesehen führenden Vorderfläche (20) jedes Rotorblattes (14) ist ein Verschleißschutz (42) lösbar befestigt.

## IPC 1-7

**D21B 1/34**

## IPC 8 full level

**D21B 1/34** (2006.01)

## CPC (source: EP)

**D21B 1/347** (2013.01)

## Citation (search report)

- [X] WO 9849389 A1 19981105 - CELLWOOD MACHINERY AB [SE], et al
- [X] GB 191405018 A 19140917 - MARX ROBERT JOSEPH [GB]
- [X] BE 1010118 A3 19980106 - MAGOTTEAUX INT [BE]
- [A] EP 0328500 A2 19890816 - SUNDS DEFIBRATOR JYLHA OY [FI]

## Cited by

DE102009012236A1; CN112958237A; EP1594597A4; CN111424450A; EP2758588B1

## Designated contracting state (EPC)

DE FR GB IT NL

## DOCDB simple family (publication)

**EP 1036877 A1 20000920; EP 1036877 B1 20020619; DE 59901791 D1 20020725**

## DOCDB simple family (application)

**EP 99104475 A 19990305; DE 59901791 T 19990305**