

Title (en)  
PULPER WITH HIGH PULPING EFFICIENCY

Publication  
**EP 0321665 B1 19910403 (DE)**

Application  
**EP 88116825 A 19881011**

Priority  
DE 3743247 A 19871219

Abstract (en)  
[origin: EP0321665A1] To achieve the best possible uniform pulping in a pulper in a shorter time with favourable energy input, it is proposed to optimise geometrical measurements of the base rotor (12) arranged at the base of the pulper vessel (2), and of a transport screw (6) directed towards the rotor and the arrangement of the screw. The lower end (14) of the transport helical screw (6) extends to the immediate vicinity of the highest point of the base rotor (12). The distance between the end of the transport screw (6) and the highest point of the base rotor (12) is smaller than 1/10 of the diameter of the base rotor (12). The diameter of the imagined circular surface of the lowest screw flight is about one third to one quarter of the diameter of the base rotor (12). The generatrix of the helix is inclined downwards to the axis of the transport screw (6) in the transport direction. Flat deflector plates are arranged on the inner circumference of the vessel (2) to direct the flow in the direction of the middle of the vessel (2). In this way, formation of a vortex in the transport flow in the vessel is prevented and a favourable toroidal transport flow is created. <IMAGE>

IPC 1-7  
**D21B 1/34**

IPC 8 full level  
**D21B 1/34** (2006.01)

CPC (source: EP)  
**D21B 1/345** (2013.01)

Cited by  
CN104372702A; CN1332092C; CN108118548A

Designated contracting state (EPC)  
AT DE ES FR IT NL SE

DOCDB simple family (publication)  
**EP 0321665 A1 19890628; EP 0321665 B1 19910403**; AT E62286 T1 19910415; DE 3743247 A1 19890629; DE 3743247 C2 19891221; DE 3862292 D1 19910508; ES 2021812 B3 19911116

DOCDB simple family (application)  
**EP 88116825 A 19881011**; AT 88116825 T 19881011; DE 3743247 A 19871219; DE 3862292 T 19881011; ES 88116825 T 19881011