

**CPC****COOPERATIVE PATENT CLASSIFICATION****D21D****TREATMENT OF THE MATERIALS BEFORE PASSING TO THE PAPER-MAKING MACHINE****D21D 1/00****Methods of beating or refining; Beaters of the Hollander type** ([knotter screens D21F](#))

## D21D 1/002

- {Control devices}

## D21D 1/004

- {Methods of beating or refining including disperging or deflaking}

## D21D 1/006

- • {Disc mills}

## D21D 1/008

- • • {Discs}

## D21D 1/02

- Methods of beating; Beaters of the Hollander type

## D21D 1/04

- • Beater rolls or bars

## D21D 1/06

- • Bed plates

## D21D 1/08

- • Beaters with means for driving the pulp quickly

## D21D 1/10

- • Beaters with means for regulating the pressure between the beater roll and the bed plate

## D21D 1/12

- • Beaters with means for continuous pulp discharge

## D21D 1/14

- • Beaters with one beater roll and with vertical stuff circulation canal

## D21D 1/16

- • Beaters with means for returning the pulp over the head of the beater roll

## D21D 1/18

- • Beaters with two or more beater rolls

## D21D 1/20

- Methods of refining

## D21D 1/22

- • Jordans

## D21D 1/24

- • • Jordan rolls

## D21D 1/26

- • • Jordan bed plates

## D21D 1/28

- • Ball or rod mills

## D21D 1/30

- • Disc mills

## D21D 1/303

- • • {Double disc mills}

## D21D 1/306

- • • {Discs}

## D21D 1/32

- • Hammer mills

## D21D 1/34

- • Other mills or refiners

## D21D 1/36

- • • with vertical shaft

## D21D 1/38

- • • with horizontal shaft

## D21D 1/40

- • Washing the fibres

**D21D 5/00****Purification of the pulp suspension by mechanical means; Apparatus therefor** ([centrifuges](#), [cyclones B04](#))

## D21D 5/005

- {Forming fibrous aggregates}

## D21D 5/02

- Straining or screening the pulp

## D21D 5/023

- • {Stationary screen-drums}

## D21D 5/026

- • • {with rotating cleaning foils}

|                   |   |
|-------------------|---|
| D21D 5/04         | . . Flat screens  |
| D21D 5/043        | . . . {Vibrating screens}   |
| D21D 5/046        | . . . {Rotary screens}  |
| D21D 5/06         | . . Rotary screen-drums   |
| D21D 5/08         | . . . combined with a rocking movement                                  |
| D21D 5/10         | . . . . of the tank   |
| D21D 5/12         | . . . . of the screen   |
| D21D 5/14         | . . . . of the tank and the screen                                      |
| D21D 5/16         | . . Cylinders and plates for screens                                    |
| D21D 5/18         | . with the aid of centrifugal force                                     |
| D21D 5/20         | . . in apparatus with a horizontal axis                                 |
| D21D 5/22         | . . in apparatus with a vertical axis                                   |
| D21D 5/24         | . . in cyclones   |
| D21D 5/26         | . De-aeration of paper stock  |
| D21D 5/28         | . Tanks for storing or agitating pulp                                   |
| <b>D21D 99/00</b> | <b>Subject matter not provided for in other groups of this subclass</b> |