

Title (en)

Method and device for removing impurities from a hydrocyclone

Title (de)

Verfahren und Vorrichtung zum Ausbringen von Störstoffen aus einem Hydrozyklon

Title (fr)

Procédé et dispositif pour enlever des impuretés d'un hydrocyclone

Publication

**EP 1069234 A1 20010117 (DE)**

Application

**EP 00112006 A 20000602**

Priority

- DE 19931166 A 19990706
- DE 20004255 U 20000307

Abstract (en)

A hydrocyclone (2) having a feed suspension inlet (2), clarified liquid outlet (3), and a separator section (1,6) with a bottom outlet (7,17) for discharge of concentrated slurry, is additionally provided with at least one inlet (5) allowing addition of a diluent liquid. The diluent inlet is located at a point in the radial interior of the hydrocyclone. The diluent addition point is positioned so that the diluent exits, essentially along the axis of the separator, with the clarified liquor (3). Preferably the diluent liquid is caused to rotate, and the inlet is located at a height 'a', not more than 30% of the hydrocyclone body height (L), and may be adjustable.

Abstract (de)

Das Verfahren dient zum Ausbringen von Störstoffen aus einer papierfaserhaltigen Suspension (S), insbesondere wenn sie aus Altpapier hergestellt ist. Dabei wird ein Hydrozyklon verwendet, bei dem Verdünnungsflüssigkeit (W) mit axialer Richtung in den axialen Bereich zugegeben wird. Die Störstoffe können bevorzugt Schwerteile sein, die sich in der papierfaserhaltigen Suspension befinden. <IMAGE>

IPC 1-7

**D21D 5/24**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [DA] US 3785489 A 19740115 - FRYKHULT R
- [DA] CA 1138378 A 19821228 - ELAST O COR PROD & ENG

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**US 6284096 B1 20010904**; AT E267909 T1 20040615; EP 1069234 A1 20010117; EP 1069234 B1 20040526; ES 2220296 T3 20041216

DOCDB simple family (application)

**US 61061600 A 20000705**; AT 00112006 T 20000602; EP 00112006 A 20000602; ES 00112006 T 20000602