

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 B1 20040526 (DE)**

Application

**EP 00112006 A 20000602**

Priority

- DE 19931166 A 19990706
- DE 20004255 U 20000307

Abstract (en)

[origin: EP1069234A1] 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.

IPC 1-7

**D21D 5/24**

IPC 8 full level

**B04C 5/14** (2006.01); **B04C 5/18** (2006.01); **B04C 11/00** (2006.01); **D21D 5/24** (2006.01)

CPC (source: EP US)

**B04C 5/14** (2013.01 - EP US); **B04C 5/18** (2013.01 - EP US); **B04C 11/00** (2013.01 - EP US); **D21D 5/24** (2013.01 - EP US)

Cited by

DE102008057339A1; DE102016122225A1; AT511837A4; AT511837B1; DE102016122225B4; US9139449B2; DE202008018358U1; WO2013117342A1; WO2010054912A1; WO2018091173A1; DE202010016700U1; WO2012080032A2; DE102010063196A1; WO2020057851A1; DE102022110164A1

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