

Title (en)

HYDROCYCLONE ARRANGEMENT, METHOD FOR THE OPERATION THEREOF, AND UNDERFLOW NOZZLE THEREFOR

Title (de)

HYDROZYKLONANORDNUNG UND VERFAHREN ZU DESSEN BETRIEB, SOWIE UNTERLAUFDÜSE DAFÜR

Title (fr)

ENSEMBLE HYDROCYCLONE, PROCEDE DE FONCTIONNEMENT ASSOCIE, AINSI QUE BUSE DE SORTIE INFERIEURE ASSOCIEE

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Abstract (en)

[origin: WO2010089309A1] The invention relates to a hydrocyclone arrangement comprising an especially tangential infeed of the feed pulp, an overflow (19) for discharging fine grains, a conical/cylindrical underflow (1) for discharging coarse grains, and a sensor system (4, 11) for detecting the jet shape or the change in shape of the jet at the coarse-grained discharge end. According to the invention, means (3) for feeding additional water in a directed manner are provided in the area of the transition from the conical part of the underflow to the cylindrical part of the underflow. Furthermore, a throttle valve (7) is optionally formed on the overflow in order to influence the solid flow to the underflow in such a way that a single-jet discharge state approaching the state where the jet is dispersed in different directions is set when a transition from the single-jet discharge (5.1) to the dispersed-jet discharge (5.2) is detected at the underflow after the additional water feeding process has been activated.

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