

Title (en)
HYDROCYCLONE ARRANGEMENT

Title (de)
HYDROZYKLONANORDNUNG

Title (fr)
ENSEMBLE HYDROCYCLONE

Publication
EP 2358479 B1 20130116 (DE)

Application
EP 10751877 A 20100823

Priority
• EP 2010062272 W 20100823
• DE 102009039238 A 20090828

Abstract (en)
[origin: WO2011023663A2] The invention relates to a hydrocyclone arrangement having a batch pulp inlet, a head water, an underflow, a supply tank, and at least one hydrocyclone feed pump present between the feed tank and the inlet. According to the invention, a lockable connection is provided between the head water and the feed tank for guiding the fine grain suspension from the head water into circulation over a prescribed time. The underflow is furthermore connected to a closed underflow tank comprising a freshwater feed. The suspension volume to be separated is placed in the feed tank in batches and is delivered to the hydrocyclone in batches. The underflow tank is filled with fresh water before commissioning the hydrocyclone, so that the discharge of fine grain into the underflow tank can be reduced.

IPC 8 full level
B04C 5/14 (2006.01); **B04C 5/18** (2006.01); **B04C 5/185** (2006.01); **B04C 5/22** (2006.01); **B04C 5/28** (2006.01); **B04C 11/00** (2006.01)

CPC (source: EP)
B04C 5/14 (2013.01); **B04C 5/22** (2013.01); **B04C 11/00** (2013.01); **D21D 5/24** (2013.01)

Cited by
US9909333B2; US9885194B1; US10767382B2; US9885196B2; US9896858B1; US10156083B2; US10253517B2; US10557278B2; US11236523B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011023663 A2 20110303; **WO 2011023663 A3 20110421**; DE 102009039238 B3 20110512; EP 2358479 A2 20110824; EP 2358479 B1 20130116; ES 2403090 T3 20130514

DOCDB simple family (application)
EP 2010062272 W 20100823; DE 102009039238 A 20090828; EP 10751877 A 20100823; ES 10751877 T 20100823