

Title (en)

SLUDGE DISPOSAL FOR WATERJET CUTTING MACHINES WITH A FILTER SYSTEM

Title (de)

SCHLAMMENTSORGUNG BEI WASSERSTRAHLSCHNEIDMASCHINEN MIT EINEM FILTERSYSTEM

Title (fr)

ÉLIMINATION DES BOUES PRÉSENTES DANS UNE MACHINE DE DÉCOUPE PAR JET D'EAU À L'AIDE D'UN SYSTÈME DE FILTRATION

Publication

EP 4003916 A1 20220601 (DE)

Application

EP 20731007 A 20200529

Priority

- DE 102019120192 A 20190725
- EP 2020065008 W 20200529

Abstract (en)

[origin: WO2021013411A1] The invention relates to a method for operating a waterjet cutting system (1) in which a liquid-particle mixture produced as a result of a cutting process is supplied to a collection device (3) by means of a pump device (2). The invention is characterized in that the liquid-particle mixture is supplied to a filter system (4), and some of the particles from the liquid-particle mixture are deposited in the filter system (4) and are collected there. The remaining liquid-particle mixture reaches the pump device (2), and additionally the deposited particles are flushed out of the filter system (4) by means of the pump device (2) in specifiable time cycles.

IPC 8 full level

C02F 1/00 (2006.01); **B24C 1/04** (2006.01); **B24C 9/00** (2006.01); **C02F 1/34** (2006.01); **C02F 103/16** (2006.01)

CPC (source: EP)

B24C 9/006 (2013.01); **C02F 1/004** (2013.01); **B24C 1/045** (2013.01); **C02F 1/34** (2013.01); **C02F 2001/007** (2013.01); **C02F 2103/16** (2013.01); **C02F 2209/005** (2013.01); **C02F 2301/028** (2013.01); **C02F 2303/16** (2013.01); **Y02P 70/10** (2015.11)

Citation (search report)

See references of WO 2021013411A1

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102019120192 A1 20210128; EP 4003916 A1 20220601; WO 2021013411 A1 20210128

DOCDB simple family (application)

DE 102019120192 A 20190725; EP 2020065008 W 20200529; EP 20731007 A 20200529