

Title (en)

WATER ABRASIVE SUSPENSION CUTTING SYSTEM AND METHOD FOR WATER ABRASIVE SUSPENSION CUTTING

Title (de)

WASSER-ABRASIV-SUSPENSIONS-SCHNEIDANLAGE UND VERFAHREN ZUM WASSER-ABRASIV-SUSPENSIONS-SCHNEIDEN

Title (fr)

INSTALLATION ET PROCÉDÉ DE DÉCOUPE PAR JET D'EAU CHARGÉE D'ABRASIF EN SUSPENSION

Publication

EP 3600765 A1 20200205 (DE)

Application

EP 17716813 A 20170331

Priority

EP 2017057786 W 20170331

Abstract (en)

[origin: WO2018177559A1] The invention relates to a water abrasive suspension cutting system (1), which has a high-pressure source (3) for providing (301) water under high pressure, a high-pressure line (5) connected to the high-pressure source (3), and a pressure vessel (11) for providing (303) an abrasive-agent suspension (13) that is under high pressure. The pressure vessel (11) is fluidically connected to the high-pressure line (5) by means of a controllable throttle (17), the throttle (17) being arranged on the inlet side of the pressure vessel (11) and being designed to control the inflow into the pressure vessel (11) from the high-pressure line (5) in accordance with at least one controlled variable.

IPC 8 full level

B24C 7/00 (2006.01); **B24C 1/04** (2006.01)

CPC (source: EP KR US)

B24C 1/04 (2013.01 - KR); **B24C 1/045** (2013.01 - EP US); **B24C 7/0007** (2013.01 - EP); **B24C 7/0023** (2013.01 - KR); **B24C 7/0084** (2013.01 - KR)

Citation (search report)

See references of WO 2018177559A1

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)

WO 2018177559 A1 20181004; AU 2017407669 A1 20191017; BR 112019019435 A2 20200414; CA 3058494 A1 20181004; CA 3058494 C 20240213; CN 110709209 A 20200117; CN 110709209 B 20220719; EP 3600765 A1 20200205; EP 3600765 B1 20220608; JP 2020515421 A 20200528; JP 7050806 B2 20220408; KR 102450780 B1 20221004; KR 20190135513 A 20191206; MX 2019011565 A 20191118; PL 3600765 T3 20221114; US 11511392 B2 20221129; US 2021107113 A1 20210415

DOCDB simple family (application)

EP 2017057786 W 20170331; AU 2017407669 A 20170331; BR 112019019435 A 20170331; CA 3058494 A 20170331; CN 201780091531 A 20170331; EP 17716813 A 20170331; JP 2019553208 A 20170331; KR 20197032246 A 20170331; MX 2019011565 A 20170331; PL 17716813 T 20170331; US 201716498703 A 20170331