

Title (en)  
PUMPING AND COMMINUTION DEVICE, METHOD FOR COMMINUTING AND HEATING AN INFLOW MATERIAL, AND USE OF SAME

Title (de)  
FÖRDER- UND ZERKLEINERUNGSVORRICHTUNG, VERFAHREN ZUM ZERKLEINERN UND ERWÄRMEN EINES EINGANGSMATERIALS UND VERWENDUNG DAVON

Title (fr)  
DISPOSITIF DE TRANSPORT ET DE BROyage, PROCÉDÉ POUR BROyer ET CHAUFFER UNE MATIÈRE DE DÉPART ET UTILISATION

Publication  
**EP 3601801 A1 20200205 (DE)**

Application  
**EP 18713635 A 20180323**

Priority  
• DE 102017106363 A 20170324  
• EP 2018057434 W 20180323

Abstract (en)  
[origin: WO2018172520A1] The invention relates to a pumping and comminution device (1) comprising: at least one submersible pump (3) located in a container (2) that is suitable for receiving an inflow material (5) and a drive (4) for driving the submersible pump (3). In said device, the at least one submersible pump (3) comprises an impeller (9) located in a submersible pump housing (8), said submersible pump housing (8) having a suction connection (7) for suctioning the inflow material (5) into the submersible pump (3). Tools (10) are located on the inner face of the submersible pump housing (8) and/or on the impeller (9), allowing solids contained in the inflow material (5) to be comminuted by the tools (10).

IPC 8 full level  
**F04D 7/04** (2006.01); **B01F 25/64** (2022.01); **B02C 18/00** (2006.01); **C10G 1/00** (2006.01); **F04D 13/08** (2006.01); **F04D 15/00** (2006.01); **F04D 29/22** (2006.01); **F04D 29/42** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP RU US)  
**B01F 25/64** (2022.01 - EP); **B01F 27/25** (2022.01 - EP US); **B01F 33/83** (2022.01 - EP US); **B02C 18/0092** (2013.01 - EP US); **B02C 18/10** (2013.01 - RU); **C10G 1/08** (2013.01 - EP); **F04D 7/045** (2013.01 - EP RU US); **F04D 13/08** (2013.01 - EP RU US); **F04D 15/0022** (2013.01 - US); **F04D 29/2288** (2013.01 - EP RU US); **F04D 29/426** (2013.01 - RU); **F04D 29/4286** (2013.01 - EP US); **F04D 29/628** (2013.01 - EP RU US); **C10G 1/08** (2013.01 - US); **F04D 15/0022** (2013.01 - EP); **F05D 2250/52** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP)

Citation (search report)  
See references of WO 2018172520A1

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 2018172520 A1 20180927**; EP 3601801 A1 20200205; RU 2019132866 A 20210426; RU 2019132866 A3 20210608; RU 2764142 C2 20220113; US 2020030809 A1 20200130

DOCDB simple family (application)  
**EP 2018057434 W 20180323**; EP 18713635 A 20180323; RU 2019132866 A 20180323; US 201816495894 A 20180323