

Title (en)  
TRAILING SUCTION HOPPER DREDGER HAVING A RECYCLE SYSTEM FOR EFFLUENT AND METHOD FOR SUCTION DREDGING

Title (de)  
LADERAUMSAUGBAGGER MIT EINEM RÜCKFÜHRUNGSSYSTEM FÜR ABWASSER UND VERFAHREN ZUM ABSAUGEN

Title (fr)  
DRAGUE À TRÉMIE À ASPIRATION ARRIÈRE DOTÉE D'UN SYSTÈME DE RECYCLAGE POUR EFFLUENT ET PROCÉDÉ DE DRAGAGE PAR ASPIRATION

Publication  
**EP 3642421 B1 20230830 (EN)**

Application  
**EP 18740330 A 20180621**

Priority  
• NL 2019109 A 20170622  
• NL 2018050398 W 20180621

Abstract (en)  
[origin: WO2018236213A2] Trailing suction hopper dredger, comprising a hopper and a suction pipe extending from the hopper, wherein a suction head is provided at an end of the suction pipe, and an outlet at an opposite end for disposing dredging sludge into the hopper. At least one jet pipe is connected to the suction head for jetting water into a suction chamber of the suction head through at least one jet and a recycle line is provided between the hopper and the suction head for feeding effluent from the hopper to the suction head. The recycle line has at least one outlet at side of, preferably at opposite sides outside the suction chamber, such that effluent flowing out of the said outlet is sucked into the said suction chamber and/or at least one outlet, opening into the suction chamber of the suction head, near a trailing end of the suction head.

IPC 8 full level  
**E02F 3/92** (2006.01); **E02F 3/88** (2006.01); **E02F 7/04** (2006.01)

CPC (source: EP KR)  
**E02F 3/8841** (2013.01 - EP KR); **E02F 3/9206** (2013.01 - EP KR); **E02F 3/925** (2013.01 - EP KR); **E02F 7/04** (2013.01 - EP KR)

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

DOCDB simple family (publication)  
**WO 2018236213 A2 20181227; WO 2018236213 A3 20190321**; AU 2018290176 A1 20200213; AU 2018290176 B2 20240620; BR 112019027634 A2 20200707; CA 3068202 A1 20181227; CO 2020000258 A2 20200424; EP 3642421 A2 20200429; EP 3642421 B1 20230830; EP 3642421 C0 20230830; ES 2957738 T3 20240124; KR 102652752 B1 20240401; KR 20200042462 A 20200423; MX 2019015858 A 20200806; NL 2019109 B1 20190107; PL 3642421 T3 20231204

DOCDB simple family (application)  
**NL 2018050398 W 20180621**; AU 2018290176 A 20180621; BR 112019027634 A 20180621; CA 3068202 A 20180621; CO 2020000258 A 20200113; EP 18740330 A 20180621; ES 18740330 T 20180621; KR 20207002369 A 20180621; MX 2019015858 A 20180621; NL 2019109 A 20170622; PL 18740330 T 20180621