

Title (en)  
Pumping means intended for being trailed by a trailing suction hopper dredger and trailing suction hopper dredger equipped with such pumping means

Title (de)  
Pumpeinrichtung für das Abschleppen durch einen Laderaumsaugbagger, und Laderaumsaugbagger, der mit einer solchen Pumpeinrichtung ausgerüstet ist

Title (fr)  
Supports de pompage conçus pour être remorqués par une drague aspiratrice traînante et drague aspiratrice traînante équipée de tels supports de pompage

Publication  
**EP 2644781 B1 20160629 (EN)**

Application  
**EP 12002349 A 20120330**

Priority  
EP 12002349 A 20120330

Abstract (en)  
[origin: EP2644781A1] Pumping means (1) for use on a dredger (2) comprising a skid structure (3) with a bottom (4) intended for being trailed over an underwater soil (5) by means of trailing wires (6) suspended from a trailing suction hopper dredger (2), a submersible pump (7) being installed in or on the skid structure (3), a suction tube (10) provided with a dredge drag head (14) which extends from the submersible pump (7), the suction tube (10) comprising means for varying the dredge drag (14) inclination with respect to the bottom (4) of the skid structure (3) according to a desired inclination angle (A) and a flexible discharge pipe (11) being provided at an outlet (9) of the submersible pump (7).

IPC 8 full level  
**E02F 3/88** (2006.01); **E21C 50/02** (2006.01)

CPC (source: EP)  
**E02F 3/8875** (2013.01); **E02F 3/90** (2013.01); **E02F 3/905** (2013.01); **E02F 3/907** (2013.01); **E02F 3/9262** (2013.01); **E02F 3/9293** (2013.01); **E02F 9/06** (2013.01); **E02F 9/2016** (2013.01); **E21C 50/00** (2013.01)

Cited by  
CN106153015A; CN106153014A; CN106884452A; CN107246042A; CN110561107A; CN114319490A; FR3101897A1; FR3101896A1; EP3808906A1; JP2020045643A; US11578472B2; EP3808906B1; EP3717704B1; EP3717704B2

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)  
**EP 2644781 A1 20131002; EP 2644781 B1 20160629**; CY 1117979 T1 20170517; DK 2644781 T3 20160919; ES 2592282 T3 20161129; HR P20160980 T1 20161007; HU E030692 T2 20170529; LT 2644781 T 20161010; PL 2644781 T3 20161230; PT 2644781 T 20160816; RS 55257 B1 20170228; SI 2644781 T1 20161028; SM T201600346 B 20161110

DOCDB simple family (application)  
**EP 12002349 A 20120330**; CY 161100892 T 20160908; DK 12002349 T 20120330; ES 12002349 T 20120330; HR P20160980 T 20160801; HU E12002349 A 20120330; LT 12002349 T 20120330; PL 12002349 T 20120330; PT 12002349 T 20120330; RS P20160823 A 20120330; SI 201230697 A 20120330; SM 201600346 T 20161003