

Title (en)
Method for performing an underwater dredging operation, and dredging installation

Title (de)
Unterwasser-Saugbagger-Verfahren und Vorrichtung dafür

Title (fr)
Procédé sous-marin de dragage et dispositif pour celui-ci

Publication
EP 1653010 B1 20091216 (EN)

Application
EP 04077955 A 20041026

Priority
• EP 04077955 A 20041026
• CN 200410095142 A 20041026

Abstract (en)
[origin: EP1653010A1] In a dredging operation, a cutting member (8) exerts a cutting force on a parcel (34) of pack bottom material. Thereby, in increase of the mutual distance of the bottom material particles (33) is generated, leading to a pore pressure decrease in the water field pores between said particles. By directing a water jet (30) towards said parcel of bottom material, a water flow is introduced into said pores thereby at least partly eliminating the pressure decrease and enabling a cutting operation with a decreased cutting force.

IPC 8 full level
E02F 3/92 (2006.01)

CPC (source: EP)
E02F 3/9262 (2013.01)

Cited by
US9476181B2; WO2013108131A1; BE1020372A5; BE1018378A3; US2011296720A1; JP2012511644A; CN106193157A; NL2018070B1; CN109208675A; WO2010066757A1; WO2013175366A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1653010 A1 20060503; EP 1653010 B1 20091216; AT E452249 T1 20100115; CN 1766241 A 20060503; CN 1766241 B 20110914; DE 602004024685 D1 20100128; ES 2337897 T3 20100430; PT 1653010 E 20100322

DOCDB simple family (application)
EP 04077955 A 20041026; AT 04077955 T 20041026; CN 200410095142 A 20041026; DE 602004024685 T 20041026; ES 04077955 T 20041026; PT 04077955 T 20041026