

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 A1 20060503 (EN)**

Application

**EP 04077955 A 20041026**

Priority

- EP 04077955 A 20041026
- CN 200410095142 A 20041026

Abstract (en)

In a dredging operation, a cutting member (8) exerts a cutting force on a parcel (34) of pack bottom material. Thereby, an 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)

Citation (search report)

- [X] BE 1011979 A3 20000307 - DREDGING INT [BE]
- [X] NL 7709227 A 19790221 - STICHTING SPEURWERK BAGGERTECH
- [X] US 4004358 A 19770125 - VAN OS ADRIAAN GABRIEL
- [A] EP 0892116 A1 19990120 - DREDGING INT [BE]
- [A] US 6449883 B1 20020917 - VANDYCKE STEFAAN [BE]

Cited by

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

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