

Title (en)
Backhoe dredger for dredging soil material under water

Title (de)
Heckbagger zum Unterwasserbaggern

Title (fr)
Pelle rétrocaveuse pour le dragage sous-marin

Publication
EP 2322728 A3 20110601 (EN)

Application
EP 10190665 A 20101110

Priority
NL 2003800 A 20091113

Abstract (en)
[origin: EP2322728A2] The invention relates to a device (1) for dredging soil material under water. The device comprises a pontoon (6), provided with an excavator (10) adapted to excavate soil under water, and actuating means (7,16,17,18,19) adapted to control the motion of the pontoon and/or the excavator. The device further comprises first monitoring means (30,35) adapted to monitor the position of the excavator; second monitoring means (31) adapted to monitor the forces experienced by the excavator; and computing means (33) adapted to compute, on the basis of data obtained from the first and the second monitoring means, control signals for the actuating means. The invention also relates to a method for dredging soil material under water, using the invented device, and to a computer program comprising program instructions that when loaded into a computer carries out the method.

IPC 8 full level
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Citation (search report)

- [XY] WO 03023152 A2 20030320 - ROCKSAW TECHNOLOGY INC [US], et al
- [Y] US 6076030 A 20000613 - ROWE PATRICK S [US]
- [Y] US 2004217900 A1 20041104 - MARTIN KENNETH L [US], et al
- [Y] JP H01314915 A 19891220 - KOKUDO SOGO KENSETSU KK, et al
- [A] US 2008010869 A1 20080117 - HARRELL SAMUEL J [US]

Cited by
WO2015126247A1; CN111021454A; CN111321771A; CN103452161A; CN105507355A; NL2012302C2; CN106592672A; CN112486021A; CN104499522A; CN105064443A; CN109881730A; CN112127407A; EP2796619A1; CN104912144A; CN104975627A; WO2022086512A1; CN103352485A; JP2015214855A

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