

Title (en)

METHOD FOR CONTROLLING THE MOVEMENT OF AN ARTICULATED HOSE CARRIER OF A SUCTION EXCAVATOR

Title (de)

VERFAHREN ZUR STEUERUNG DER BEWEGUNG EINES GELENKSCHLAUCHTRÄGERS EINES SAUGBAGGERS

Title (fr)

PROCÉDÉ DE COMMANDE DE DÉPLACEMENT D'UN PORTE-FLEXIBLE ARTICULÉ D'UNE DRAGUE SUCEUSE

Publication

**EP 3440273 A1 20190213 (DE)**

Application

**EP 17716474 A 20170321**

Priority

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- EP 2017056729 W 20170321

Abstract (en)

[origin: CA3020352A1] A method is provided for controlling the movement of an articulated hose mount, which carries the suction hose of a suction dredge. The hose mount has  $n > 2$  members. A change in angle is induced between neighboring members with a drive. The starting position is determined with sensors. A direction vector and a velocity parameter are determined. A target position is determined, which is assumed by a suction crown.  $N$  angle changes are determined to reach the target position while the suction crown moves into the target position along a straight path of movement and the sum of all angle changes on the  $n$  members is minimal. The drives associated with the  $n$  members are controlled to perform the predetermined angle change on the  $n$  members. These steps are cyclically repeated until the direction vector or the velocity parameter are zero.

IPC 8 full level

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CPC (source: EP US)

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