

Title (en)

Method for lowering under water the floating body of a floating support

Title (de)

Verfahren zum Absenken eines Schwimmkörpers eines Schwimmfundaments

Title (fr)

Méthode pour baisser sous l'eau le flotteur d'un support flottant

Publication

EP 1336559 A1 20030820 (DE)

Application

EP 03001997 A 20030131

Priority

- AT 2312002 A 20020214
- AT 8322002 A 20020531

Abstract (en)

Lowering a floating body (1) of floating foundation and carrying structure (2) to an end position located beneath the water level, and securing the floating body in the end position, comprises treading one of a cable and rod and connecting to a set-in-ground anchor; providing an uptake device to one of the cable and rod; lowering the floating body against buoyancy; and fixedly securing one of the cable and rod to a floating body and cutting off sections above fixation points. Lowering a floating body of a floating foundation and carrying a structure projecting above a water surface (27) to an end position located beneath the water level, and securing the floating body in the end position, comprises; (a) forming in the floating body, which floats above the water surface, at least three through-openings in corner points of an imaginary triangle; (b) securing, to the floating body above each of the through-openings, an upwardly projecting tube; (c) treading, through each of the upwardly projecting tubes one of cable and rod and connecting the one of cable and rod to set-in-ground anchor; (d) providing, in a region of an upper end of each of the upwardly projecting tubes, an uptake device connectable with a respective one of cable and rod; (e) lowering the floating body, with the uptake devices, to the end position beneath the water surface against buoyancy of the floating body; and (f) fixedly securing the ones of cables and rods, in the end position of the floating body, to the floating body and cutting off sections of the ones of cables and rods above fixation points of the ones of cables and rods with the floating body and removing the tubes which upwardly project above the respective through-openings. An Independent claim is also included for an apparatus for lowering a floating body of a floating foundation and carrying a structure projecting above a water surface to an end position located beneath the water level, and in which the floating body is retained, comprising cables and rods connected with set-on-ground anchors, tubes projecting upward and arranged above respective through-openings formed in the floating body, and uptake device arranged at upper ends of upwardly projecting tubes for pulling out the one cables and rods through the respective through-openings and the respective upwardly projecting tubes for lowering the floating body.

Abstract (de)

Bei einem Verfahren zum Absenken eines Schwimmkörpers (1) eines Schwimmfundaments, welches ein über die Wasseroberfläche aufragendes Bauwerk (2) trägt, in seine unterhalb der Wasseroberfläche (27) sich befindende Endlage und zur Fixierung in seiner Endlage werden durch Durchtrittsöffnungen (8) im Schwimmkörper (1) und oberhalb der Durchtrittsöffnungen (8) angebrachte Rohre (14), Kabel (13) bzw. Stangen geführt, die zuvor oder in der Folge mit einem im Untergrund (11) gesetzten Anker (12) verbunden werden. Im Bereich des oberen Endes eines jeweiligen Rohres (14) ist ein am Kabel (13) bzw. an der Stange angreifendes Zuggerät (25) vorgesehen, wobei der Schwimmkörper (1) mittels der an den Kabeln (13) bzw. Stangen angreifenden Zuggeräte (25) gegen die Auftriebskraft des Schwimmkörpers (1) unter die Wasseroberfläche (27) in seine Endlage abgesenkt wird und in der Endlage des Schwimmkörpers (1) die Kabel (13) bzw. Stangen gegenüber dem Schwimmkörper (1) fixiert werden und oberhalb der Fixierung am Schwimmkörper (1) befindliche Abschnitte der Kabel (13) bzw. Stangen entfernt werden und die oberhalb der Durchtrittsöffnungen (8) aufragenden Rohre (14) abgenommen werden. <IMAGE>

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CPC (source: EP US)

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Citation (applicant)

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- JP H06255573 A 19940913 - KAJIMA CORP, et al
- EP 2015395 A1 20090114 - KOJIMA PRESS KOGYO KK [JP]

Citation (search report)

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- [A] US 6022174 A 20000208 - HUSVIK JOERGEN [NO], et al

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