

Title (en)

Method and installation of effluent recovery at sea by using a shuttle reservoir

Title (de)

Verfahren und Installation zur Ausflussrückgewinnung am Meer durch Benutzung eines Pendelreservoirs

Title (fr)

Procédé et installation de récupération d'effluents en mer à l'aide d'un réservoir navette

Publication

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Application

EP 03358003 A 20030221

Priority

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Abstract (en)

The shuttle reservoir has a collecting (2A) and a deploying (2B) form. It is repeatedly lowered to the seabed (7) in its collecting form, where it connects to an evacuation device (6) in the hull (6) of the damaged vessel and is filled and sealed shut. Integral floatation devices lift it to a surface vessel in its deployed form, where it is emptied or stored for transportation to shore : The evacuation device (6) contains a pipe and a first valve acting with an opening in the hull and/or the vessel to recover the effluents by lifting them into the evacuation device. The shuttle reservoir has at least one main internal orifice (5) which works with the evacuation device. These steps are repeated with the same shuttle reservoir until the required amount of effluent has been recovered. The shuttle reservoir has a rigid dome with an open base, a rigid, flat, circular base and a flexible side wall which can be folded up into the filling position and unfolding as it fills to the deployed shape. The floatation elements are integral inside the dome and are preferably a syntactic mousse. The centre of buoyancy is above the apparent centre of gravity in the water. The reservoir can be moved by floating it into a submersible bridge vessel without having to lift it. The shuttle reservoir is held near the sunken vessel by an anchor cable to the seabed and a second anchor cable to the vessel. The reservoir has a second orifice and valve and contains an internal flexible fine mesh pouch to confine viscous elements.

Abstract (fr)

La présente invention concerne un procédé de récupération d'effluents polluants (1) plus légers que l'eau, contenus dans une cuve (6) d'un navire coulé et/ou endommagé reposant au fond de la mer (7) dans lequel : 1- on descend ledit réservoir navette (2), depuis la surface (11) jusqu'au fond de la mer (7), dans sa dite position ramassée (2A) et on fait coopérer ledit orifice inférieur (51) du réservoir navette (2) avec ledit dispositif d'évacuation (61-63), et 2- on remplit ledit réservoir navette (2) d'effluents (1), et 3- on laisse ledit réservoir navette (2) remonter naturellement à la surface, une fois rempli, en configuration déployée (2B). <IMAGE>

IPC 1-7

B63C 7/16

IPC 8 full level

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Citation (applicant)

FR 2804935 A1 20010817 - BOUYGUES OFFSHORE [FR]

Citation (search report)

- [DA] FR 2804935 A1 20010817 - BOUYGUES OFFSHORE [FR]
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- [A] US 3561220 A 19710209 - RIESTER CHESTER GEORGE
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