

Title (en)

Submarine vehicle for dredging and lifting minerals at a great depth.

Title (de)

Untersee-Fahrzeug zum Baggern und Hochheben von Mineralien aus grossen Tiefen.

Title (fr)

Véhicule sous-marin de dragage et de remontée de minéraux à grande profondeur.

Publication

EP 0018891 A1 19801112 (FR)

Application

EP 80400553 A 19800423

Priority

FR 7910776 A 19790427

Abstract (en)

[origin: US4357764A] A submarine vehicle for collecting and raising materials resting on the sea bed at great depths, of the type comprising a load-bearing structure, collecting elements for the materials, storage silos for storing the materials collected and/or the ballast material, transfer means between said collecting elements and said silos, and main propellers for advancing the vehicle on the sea bed, said vehicle being characterized in that said load-bearing structure is made of a buoyancy material, said structure being in the form of a ring having a longitudinal plane of symmetry and defining the stem, stern and sides of said vehicle, and defining between them a free central space, the outer surface of said structure forming the hull of said vehicle, said storage silos being arranged in the free central space and fixed to said load-bearing structure, said collecting elements being arranged in front of and below said stem, said main propellers also being fixed to the lower surface of said load-bearing structure.

Abstract (fr)

Véhicule sous marin pour le ramassage et la remontée de matériaux reposant sur un fond marin à grande profondeur. Le véhicule se caractérise en ce qu'il comprend une structure porteuse (2) réalisée en un matériau de flottabilité, ladite structure ayant la forme d'un anneau présentant un plan de symétrie longitudinal et définissant l'étrave (2a), l'arrière (2b) et les flancs (2c et 2d) du véhicule et ménageant ainsi un espace libre central, la face externe de la structure (2) réalisant la carène du véhicule. Des silos de stockage (16a...16n) sont ménagés dans l'espace central. Le véhicule comprend également des éléments de ramassage (14) disposés en avant de l'étrave et des propulseurs principaux (12) fixés sous la structure porteuse. Application au ramassage de nodules polymétalliques.

IPC 1-7

E21C 45/00; **E02F 5/00**; **E02F 7/00**; **B63C 11/40**; **B63B 3/13**

IPC 8 full level

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Citation (search report)

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