

Title (en)  
Submarine vehicle.

Title (de)  
Unterwasserfahrzeug.

Title (fr)  
Véhicule sous-marin.

Publication  
**EP 0288449 A1 19881026 (EN)**

Application  
**EP 88870062 A 19880413**

Priority  
BE 8700417 A 19870417

Abstract (en)  
The vehicle which is movable on underwater surfaces, consists of a frame (1) provided with driving wheels (3), at least one suction element (4;33) which is intended to press the vehicle against an underwater surface (30) during the movement of the vehicle on this surface (30) and at least one arm (18) having one end (19) which is hingedly connected to the frame (1) and another end (17) which is connected to the suction element (4;33). The vehicle is characterized in that a double-acting hydraulic cylinder (25) is hingedly connected to the frame (1) and to the arm (18), between the ends (17,19) of the latter, said cylinder (25) being intended to exert on the suction element (4;33) a force, so that a constant and adjustable pressure is maintained between the suction element and said surface (30), whatever be the form or the unevennesses of the surface (30) with which the vehicle is in contact.

IPC 1-7  
**B63B 59/10**

IPC 8 full level  
**B63B 59/10** (2006.01)

CPC (source: EP)  
**B63B 59/10** (2013.01)

Citation (search report)

- [AD] GB 2155771 A 19851002 - UNDERWATER MAINTENANCE COMPANY
- [A] BE 843312 A 19761223
- [A] FR 2369964 A1 19780602 - LUNDBERG HANS [SE]
- [A] FR 2569140 A1 19860221 - INT ROBOTIC ENGINEERIN [US]
- [A] EP 0131987 A1 19850123 - ROMBAY BOUD VAN
- [A] FR 1580337 A 19690905
- [A] NAVY TECHNICAL DISCLOSURE BULLETIN, vol. 5, no. 7, July 1980, pages 49-54; D.J. HACKMAN et al.: "Underwater ship and submarine hull cleaning unit"

Cited by  
CN106516042A; CN106741726A; CN106516037A; CN106516038A; CN110901848A; EP0652151A4; CN105947143A; CN106741725A; US10308093B2; CN112004742A; WO2014072556A1

Designated contracting state (EPC)  
BE DE FR GB GR IT NL SE

DOCDB simple family (publication)  
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