

Title (en)

Device for and method of applying work to internal surfaces of a vessel hold

Title (de)

Gerät und Verfahren zum Bearbeiten von Innenoberflächen eines Schiffsladeraumes

Title (fr)

Dispositif et méthode pour travailler les surfaces intérieures des cales d'un bateau

Publication

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Application

EP 98305306 A 19980703

Priority

- EP 98305306 A 19980703
- AU 7406598 A 19980703
- CA 2242128 A 19980629
- JP 20096998 A 19980715
- KR 19980028079 A 19980713
- NZ 33084998 A 19980701
- SG 1998001591 A 19980704

Abstract (en)

A self-contained device for cleaning and coating hold surfaces in a bulk carrier includes four major components, namely a horizontally mobile vertical tower (28) (e.g., with walking beams (30) for permitting the device to move into the four corners of the hold (12) into which it has been lowered), a vertical trolley (32) for permitting the workers to reach with their equipment all elevations within the hold, a horizontal trolley (34) for permitting the workers to achieve optimum proximity to a wall surface (24), and cleaning and coating support equipment and systems (36). The device can be lifted into and out of the cargo hold altogether, or in sections. A walkway on the horizontal trolley (34) preferably extends on all four sides, in order to permit working from at least two sides simultaneously for each of four positions of the base on the bottom of the hold. For cleaning and coating, automated abrasive blasting equipment (70) and automated coating spraying equipment (76) is provided for horizontal travel along each of the four sides of the horizontal trolley, e.g., on the safety rail. <IMAGE>

IPC 1-7

B63C 5/02; **B63B 59/06**

IPC 8 full level

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CPC (source: EP KR)

B63B 27/16 (2013.01 - KR); **B63B 59/06** (2013.01 - EP); **B63C 5/02** (2013.01 - EP)

Citation (applicant)

- US 5398632 A 19950321 - GOLDBACH RICHARD A [US], et al
- US 5353729 A 19941011 - GOLDBACH RICHARD A [US], et al
- US 5540172 A 19960730 - GOLDBACH RICHARD A [US], et al

Citation (search report)

- [Y] US 3891051 A 19750624 - TAKENOUCHI SENJI, et al
- [Y] GB 1382112 A 19750129 - ISHIKAWAJIMA HARIMA HEAVY IND
- [A] GB 1151793 A 19690514 - CAMMELL LAIRD SHIPREPAIRERS LT
- [A] US 3753413 A 19730821 - MATSUHIRO K, et al
- [A] FR 2313135 A1 19761231 - SHELL INT RESEARCH [NL]
- [A] US 2500660 A 19500314 - CHAPPEN STEPHEN P
- [AD] US 5353729 A 19941011 - GOLDBACH RICHARD A [US], et al
- [A] NL 9101910 A 19930601 - LTC INT BV
- [A] US 4057943 A 19771115 - LIENHARD ROBERT W

Cited by

KR100777773B1; CN103072089A; CN114192275A; CN103982040A; EP1124026A1; FR2804984A1; US6659226B2

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