

Title (en)

Transport and installation device for the deck of an offshore platform

Title (de)

Vorrichtung zum Transport und zur Installation des Decks einer Ölplattform im Meer

Title (fr)

Dispositif de transport et de pose d'un pont d'une plate-forme pétrolière d'exploitation en mer

Publication

EP 0964102 A1 19991215 (FR)

Application

EP 99401284 A 19990528

Priority

FR 9807456 A 19980612

Abstract (en)

A framework (11) is mounted on a floating barge (10) to support both the bridge (1) and means of moving the bridge between a position resting on the barge and a position resting on the legs of the platform. The means of displacement are at least one rack (21) which is moved vertically by a driving mechanism (20). The framework has at least one upper (12a) and one lower (12b) beam connected together by tie-beams (13) extending transversely with respect to the axis of the barge. The beams support a rack and driving mechanism at each end. The length of the beams can be varied to modify the distance between the racks. The rack is made of a plate with a series of teeth in each side and the driving mechanism includes at least two opposed assemblies, each containing a motor and a reduction gear driving a pinion which meshes with the teeth in the rack. The driving mechanism assemblies are mounted in a structure connected to the beams by shock absorbers. The rack has a shock absorbing skate at its top end. The device incorporates means of connecting the rack to the bridge of the platform which are separable after ballasting the barge. These means comprise a rod with one end connected to the rack and the other end connected to the bridge, with a narrow section in the rod designed to rupture under a set load. Alternatively the rod is attached at its two ends by a locking system operated by a control unit. The locking system comprises a finger which fits into a groove in the rod. The finger and groove have matching v-shaped profiles and the control unit is a jack.

IPC 1-7

E02B 17/00

IPC 8 full level

E02B 17/00 (2006.01)

CPC (source: EP US)

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Citation (search report)

- [YA] US H488 H 19880705
- [YA] US 3014346 A 19611226 - SMALL MERWYN C

Cited by

CN102061684A; EP1620628A4; MY120813A; CN110556969A; CN111809590A; KR100452595B1; US7410327B2

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