

Title (en)

Tug for rendering assistance to a larger vessel.

Title (de)

Schlepper als Hilfe für ein grösseres Schiff.

Title (fr)

Remorqueur pour assister un bateau plus grand.

Publication

**EP 0176189 A1 19860402 (EN)**

Application

**EP 85305402 A 19850729**

Priority

- GB 8420925 A 19840817
- GB 8427554 A 19841031

Abstract (en)

A tug 1 has a towing hook 6 mounted at the outer end of a towing arm 4, the inner end of which is mounted on the main deck 2 of the tug in a manner such that the arm 4 can swivel above the main deck 2 from one side 4a to the other side 4b of the tug about an upright axis under the control of a power-operated driving mechanism 17. The tow line 7 passes through a fairlead 16 and then to the drum of a self-tensioning winch 15. The drive to the arm 4 augments the steering capability and the characteristics of the winch 15 keep the power required for the drive within controlled limits. The arm 4 is also pivoted about a horizontal axis so that it can swing upwards and downwards and is mounted on a platform 12, mounted on a carriage 13 which is movable fore and aft on rails 14 on the main deck 2. These movements of the arm 4 are also controlled by power mechanisms and they adjust the position of the point of action of the tow line 7 in such a way that in whatever direction the tow line 7 extends, even exactly athwartships from the tug, the line of action of the pull in the tow line 7 produces only a small capsizing moment upon the tug.

IPC 1-7

**B63B 35/68**

IPC 8 full level

**B63B 35/68** (2006.01)

CPC (source: EP KR US)

**B63B 21/16** (2013.01 - EP KR); **B63B 21/56** (2013.01 - KR); **B63B 35/68** (2013.01 - EP KR US); **B66D 1/50** (2013.01 - KR)

Citation (search report)

- [A] DE 1756005 A1 19700319 - WESER AG
- [A] DE 1247894 B 19670817 - THEODOR VAN DER KUIL
- [A] DE 685414 C 19391218 - SCHIFF UND MASCHB AKT GES DEUT
- [A] US 2902966 A 19590908 - WOLFGANG BAER

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