

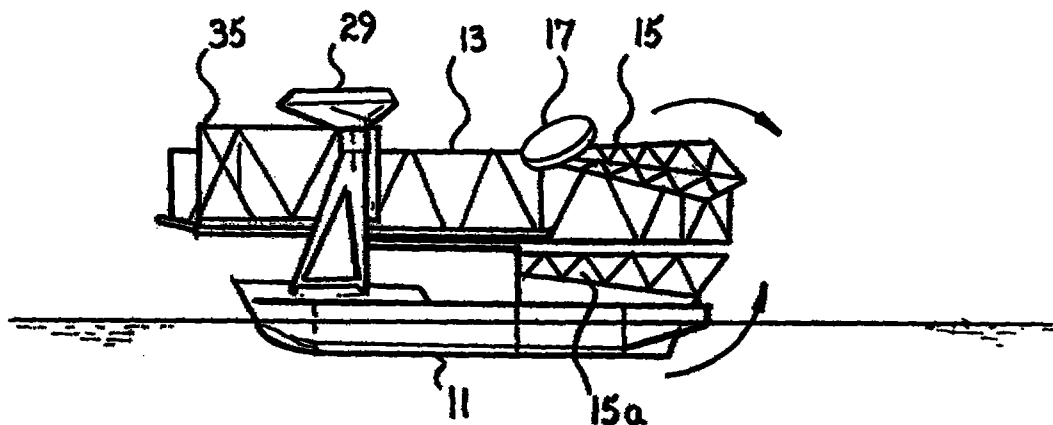
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

RTMP S copy

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>E02B 17/02, B63B 35/00, E02D 27/32, E04B 1/36</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>A1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>(11) International Publication Number:</b> <b>WO 95/33892</b><br><b>(43) International Publication Date:</b> 14 December 1995 (14.12.95) |
| <b>(21) International Application Number:</b> <b>PCT/AU95/00336</b><br><b>(22) International Filing Date:</b> <b>June 1995 (07.06.95)</b><br><b>(30) Priority Data:</b><br>PM 6146 <b>8 June 1994 (08.06.94)</b> AU<br>PM 9708 <b>28 November 1994 (28.11.94)</b> AU<br><b>(71) Applicant (for all designated States except US):</b> <b>CHERWORA PTY LTD [AU/AU]; Suite 1, 567 Hay Street, Daglish, W.A. 6008 (AU).</b><br><b>(72) Inventor; and</b><br><b>(75) Inventor/Applicant (for US only):</b> <b>ELLNOR, Piet [AU/AU]; 5 Coolgardie Avenue, East Fremantle, W.A. 6158 (AU).</b><br><b>(74) Agents:</b> <b>HARWOOD, Errol, John et al.; Wray &amp; Associates, 239 Adelaide Terrace, Perth, W.A. 6000 (AU).</b> | <b>(51) Designated States:</b> AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).<br><br><b>Published</b><br><i>With international search report.</i><br><br><b>9612001-9</b><br><b>RTMP</b> |                                                                                                                                             |

(54) Title: **OFFSHORE CONSTRUCTION AND VESSEL**

## (57) Abstract

A construction jack-up barge comprising a barge (11) supporting a tower (13) in a stowed horizontal position for transport and a vertical position for deployment. The tower (13) has three fold out legs (15), each equipped with a footing assembly (17). The tower (13) is supported for rotation between a horizontal stowed position and a vertical position for deployment, about the barge (11), by a pivotal connection (19). The tower is also supported in a travelling frame (20) which has concave shaped rollers (21) which track each chord of the tower (13), allowing the tower (13) to be moved up and down relative to the barge (11), when the tower is being deployed. In the vertical position the tower (13) is received through an opening which extends through the deck to the hull of the barge (11). A central cut out portion (33) extends from the stern of the barge (11), to the opening, to provide a pathway for the tower (13) as it rotates between the horizontal and vertical positions. The barge may be jacked up clear of the water, and may be separated from the column to enable the embarking therefrom.