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(21) International Application Number: PCT/US96/19155 (22) International Filing Date: 2 December 1996 (02.12.96) (30) Priority Data: 08/577,721 22 December 1995 (22.12.95) US (71) Applicant (for all designated States except US): SEAREX INC. [US/US]; 74045 Military Road, Covington, LA 70435 (US). (72) Inventors; and (73) Inventors/Applicants (for US only): SANDERS, Ronald, E. [US/US]; 74045 Military Road, Covington, LA 70435 (US). DELAMATYR, George [US/US]; 5046 Moultrie Drive, Corpus Christi, TX 70435 (US). BOURG, Avis [US/US]; #4 Marigold Drive, Covington, LA 70433 (US). (74) Agents: GARVEY, Charles, C., Jr. et al.; Pravel, Hewitt, Kimball & Krieger, 10th floor, 1177 West Loop South, Houston, TX 77027 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, 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). Published <i>Without international search report and to be republished upon receipt of that report.</i>

(54) Title: **JACK-UP RIG CRANE**

(57) Abstract

A boat lifting crane (30) includes an annular ring beam (65) mounted on the barge deck (13) of a jack-up rig (11) about one of the vertical openings (14) of the rig that receives one of the legs (15) and its elevating units (24, 25, 26). The ring provides spacing away from the leg, its opening and its elevating unit so that the ring derives all of its structural integrity from the barge or hull of the jack-up unit. The ring provides upper (62) and lower (63) bearing surface portions. A crane gantry (67) extends about a selected one of the legs and its adjacent elevating units of the jack-up rig, the gantry having front and rear portions. A boom (69) pivotally mounts to the front portion of the gantry. Roller bearings (58) and/or other friction reduction devices on the front portion of the gantry transfer load to the ring upper surface. Hook rollers (59) and/or other friction reduction devices on the rear portion of the gantry transfer uplift load to the ring at the ring lower surface. The ring and the gantry are sized and shaped so that the gantry can rotate fully about the leg without interfering with the operation of the leg nor with the structural integrity of the jack-up units used to elevate the leg.

