

12

EUROPEAN PATENT APPLICATION

21 Application number: 89312499.0

51 Int. Cl.⁵: B66C 23/16, B66C 1/68

22 Date of filing: 30.11.89

30 Priority: 30.11.88 GB 8827965

43 Date of publication of application:
06.06.90 Bulletin 90/23

84 Designated Contracting States:
DE ES GB NL

88 Date of deferred publication of the search report:
22.08.90 Bulletin 90/34

71 Applicant: **BABCOCK ENERGY LIMITED**
11 The Boulevard
Crawley Sussex RH10 1UX(GB)

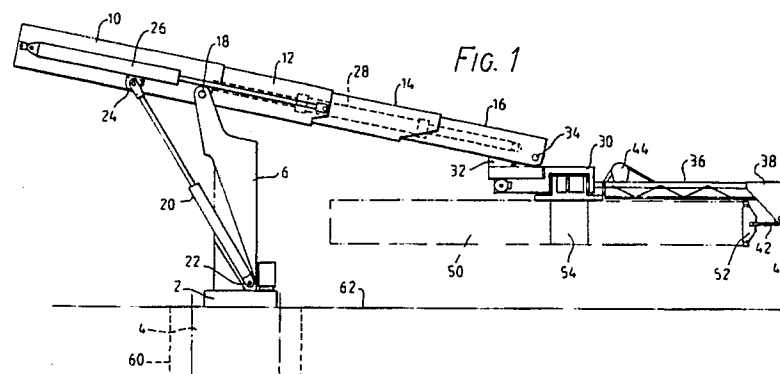
72 Inventor: **Yates, George Anthony**
Plum Paddock Uckfield Lane
Haver Kent(GB)
Inventor: **Fillingham, John Francis**
38 Burgby Avenue
Brampton, L6X 3A4, Ontario(CA)

74 Representative: **Lewis, David Overington**
Babcock International plc 217 Tabard Street
London SE1 4UR(GB)

54 Handling devices.

57 An arm 8 (Fig.1) consisting of parallel axes sections 10, 12, 14, 16 slidable relative to one another to advance or retract a forward section 16 from or to a rearmost section 10 is luffably mounted on a slewable pillar 6. The forward section 16 carries, on a horizontal axis pivot 34, a mounting 32 which in turn, carries a support head 30 slewable about an axis in the vertical plane. A gantry 36, restraint strap 54 and winch 44 are mounted on the support head 30. The device is operable by slewing the pillar 6 and support head 30 and advancing or retracting the arm 8 to position the support head in register with a horizontally extending elongate container 50, for con-

nection thereto. The elongate container is lifted by luffing the arm, and the support head and elongate container are pivoted to a vertically extending orientation to enable the container to be positioned in register with a vertically extending aperture by advancing or retracting the arm 8 and slewing the pillar 6. Lowering of the container 50 into the aperture is effected by operation of the winch 44. The articulation of the various components permits the device to have a compact configuration for storage on board a ship or transportation between ships on high wire or jack stay equipment also used for transportation of the elongate containers.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 31 2499

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 124 947 (VAN SEUMEREN) * page 2, line 17 - page 3, line 27; figures 2,3 * ---	1,2,7-9	B 66 C 23/16 B 66 C 1/68
Y	AT-B- 309 734 (PALFINGER) * page 2, lines 30-44; figures 1,2 * ---	1,2,7-9	
A	DE-U-8 508 518 (JOH. TIRRE) * page 9, line 7 - page 10, line 4; figure 1 * ---	1,2,8	
A	US-A-3 837 502 (HORNAGOLD) * column 3, line 53 - column 4, line 19; figure 2 * -----	1,6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 66 C
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 23-05-1990	Examiner WESTERMAYER W G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			