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(71) Applicant: **MJR CONTROLS LIMITED** [GB/GB]; Unit
85 Willows Court, Thornaby Industrial Estate, Stockton on
Tees Durham TS14 9PP (GB).

(72) Inventor: **CAIRNS, Paul Robert**; c/o MJR Controls Lim-
ited, Thornaby Industrial Estate, Stockton on Tees Durham
TS14 9PP (GB).

(74) Agent: **HGF LIMITED**; 1 City Walk, Leeds West York-
shire LS11 9DX (GB).

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(54) Title: ADAPTIVE TENSION COMPENSATOR SYSTEM FOR OFFSHORE CHARGING OPERATIONS BETWEEN A
VESSEL AND AN OFFSHORE POWER STATION

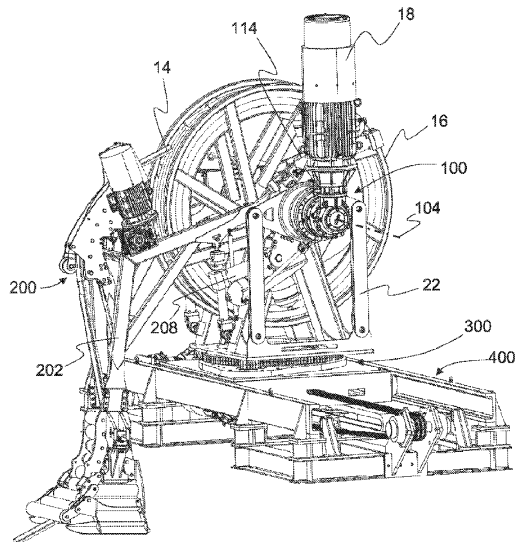


FIG. 2

(57) Abstract: The present invention provides for an adaptive tension compensator system for offshore charging of a vessel via an umbilical cable of a motor driven reeling drum provided at a power station. The compensator system comprises a motor hub member (102), mountable to a motor shaft (20) and configured to transmit rotary motion between a motor (18) and the reeling drum (16) along a first rotational axis (104); a reel hub member (106), mountable to the reeling drum, arranged coaxial with said motor hub member and configured to transmit rotary motion between the reeling drum and the motor, and a coupling mechanism (108), operably coupled between said reel hub member and said motor hub member, adapted to transmit rotary motion between said reel hub member and said motor hub member when the motor is in a first mode, and adapted to provide a biased rotational motion of said reel hub member about said first rotational axis between a first angular position (110) and a second angular position (112) relative to said motor hub member, when the motor is in a second mode.

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