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(54) Title: A METHOD AND APPARATUS FOR MONITORING A JACK-UP RIG

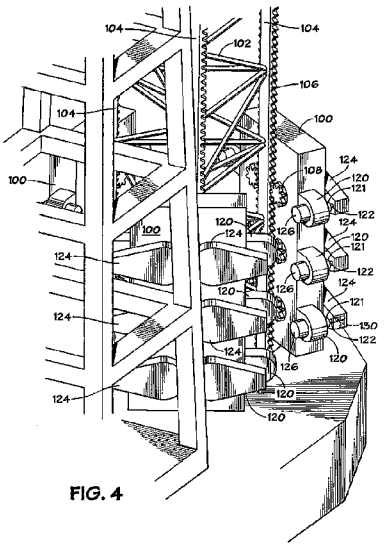


FIG. 4

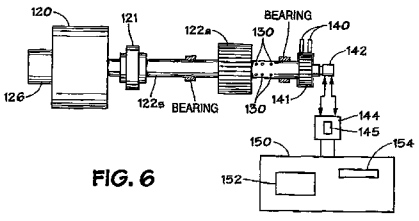


FIG. 6

(57) Abstract: A method and apparatus for monitoring a jack - up rig comprising a platform (12), at least one leg (14), at least one chord (104) having a toot hed rack (106) and a jacking apparatus (100) comprising a climb pinion apparatus (108,121,122s,122a,161) driven by a motor (120) for jacking the platform (12) on the at least one leg (14), the climb pinion apparatus (108,121,122s,122a,161) comprising a gea r (108) for meshing with the toothed track (106) and a shaft (122), characterised in that at least one strain sensing apparatus (130) is provided on said climb pinion apparatus (108,121,122s,122a,161) the method comprising the steps of obtaining a signal i ndicative of strain with said strain sensing apparatus (130) and sending said signal to a control system and processing said signal to pro duce a value of a load on said chord (104).

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