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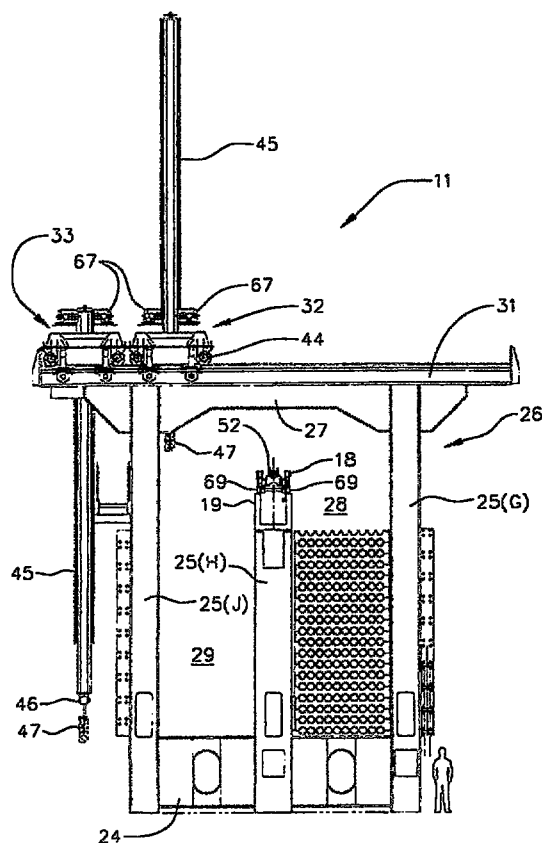
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(54) Title: HORIZONTAL DRILL PIPE RACKER AND DELIVERY SYSTEM



(57) Abstract: Stands (43) of multiple lengths of drill pipe, for oil and gas drilling are individually supported in a storage bin (28, 29) in an array of plural layers of plural numbers of stands. The individual stands are held in cooperating notches (41, 42) in vertically aligned support sleepers (38, 39) so that each stand experiences loads due only to its own weight and to motions of a bin frame (13) where, as preferred, the frame is supported on a drillship deck (12). Sleepers between stand layers are indexable between positions in the array and outside the array. A bridge crane (32, 33) spans the length of the bin and is moveable transversely above it. The bridge crane carries vertically movable magnetic lifting heads (47) for lifting, holding and releasing an individual pipe stand. The crane can move a stand between a supported position in the bin array and a supported position on a power-driven carriage (18, 49) which is movable along a path along an upper part of a side of the bin (28, 29). The carriage includes a skate cart (18) for transporting a stand as such, and a pin cart (49) drivable along the skate cart for supporting the pin end of a stand on the skate. The carriage path preferably ends inside the margin of the floor (17) of a drilling rig.

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