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INTERACTIVE LEG GUIDE FOR OFFSHORE SELF-ELEVATING UNIT

ABSTRACT OF THE DISCLOSURE

A leg guide for use in a leg of a jack up unit adapted to provide sliding guidance of the leg during vertical movement of the leg. The leg guide has a first portion contacting an edge of a leg chord and a second portion contacting a face of the leg chord along a longitudinal plane opposite the contact plane of the first portion. The edge contacting guide has a deflecting guide unit, which uses a compressible member sandwiched between two rigid plates. As the leg moves, the teeth of the leg chord contact the edge guide unit, with the compressible member absorbing compressible loads acting on the leg chord. The second portion provides for a face plate mounted transversely to the edge contacting guide for reducing the build-up of horizontal moment acting on the leg chord during the vertical movement of the leg and for reducing bending moments acting on the leg.

Please see Figure 4.