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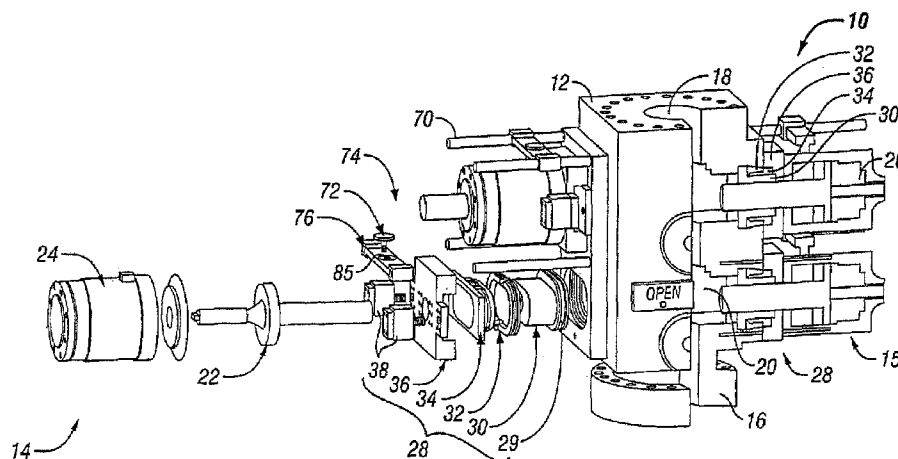
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(54) Title: MOUNTS FOR BLOWOUT PREVENTER BONNETS



(57) Abstract: A bonnet locking apparatus is disclosed. The bonnet locking apparatus includes a segmented radial lock disposed around a bonnet and configured to engage a corresponding radial lock disposed in a body of a blowout preventer, at least one spring configured to bias at least one segment of the segmented radial lock in a locked position, and a backup sleeve disposed around the bonnet, wherein at least a portion of the backup sleeve is configured to secure engagement of the segmented radial lock with the corresponding radial lock disposed in the body of the blowout preventer. A method of locking a bonnet to a blowout preventer is also disclosed. The method includes assembling a segmented radial lock around a bonnet, wherein at least one segment of the radial lock is biased towards a locked position, inserting the bonnet into an opening in the blowout preventer, wherein an outer surface of the segmented radial lock contacts a surface of the opening, thereby moving the at least one segment of the segmented radial lock radially inward, until the at least one segment of the segmented radial lock extends radially outward into engagement with a corresponding radial lock disposed in the blowout preventer, and position a backup sleeve into a position wherein at least a portion of the backup sleeve is radially inward of the segmented radial lock.

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