VERTICAL RATCHETING ANTI-ROTATION DEVICE

ABSTRACT

In one embodiment, a vertical ratcheting anti-rotation device includes a ratchet mechanism pivotally coupled at a proximal end to a first tubular member in a first recessed area located on a shoulder of the first tubular member. A distal end of the ratchet mechanism includes a first plurality of angled teeth and a spring allowing the ratchet mechanism to pivot in a vertical direction within the first recessed area. The anti-rotation device may also include a toothed insert mechanically coupled to a second tubular member in a second recessed area located on a shoulder of the second tubular member. The toothed insert may include a second plurality of angled teeth positioned to engage the first plurality of angled teeth of the ratchet mechanism. The spring is compressible during coupling of the tubular members to allow the ratchet mechanism to move vertically over the second plurality of angled teeth.

FIGURE 2