

ROTATIONALLY ACTUATED COLLET STYLE TUBULAR CONNECTION

ABSTRACT OF THE DISCLOSURE

A collet assembly connects two tubular members (12, 42) with a rotation of an outer sleeve (30). The collet assembly includes a first tubular member (12) with a grooved outer diameter end (10). The end (10) is inserted into a collet (18) having grooved inner and outer diameter surfaces (22, 20), and an outer annular sleeve (30) is threaded onto the collet (18). A grooved outer diameter end (44) of a second tubular member (42) is inserted into the collet (18). The outer annular sleeve (30) is rotated relative to the collet (18). The rotation causes the collet (18) to partially disengage from the outer annular sleeve (18) and fully engage the grooves (14, 46) of the ends (10, 42) of the first tubular member and the second tubular member (12, 42), thereby securing the first tubular member (12) to the second tubular member (42).

Figure 1