

PRESSURE ENERGIZED INTERFERENCE FIT SEAL

Abstract of the Disclosure:

A seal assembly for use between wellbore tubulars employs an inner seal ring partially circumscribed by an outer seal ring. The seal rings are axially slidable with respect to one another and can be made from pliable inelastic materials such as graphite or a fluoropolymer. The seal rings contact one another along profiled surfaces that are angled such that by axially urging the seal rings towards one another produces a bulge in the seal assembly directed radially outwards and inwards. The bulging seal rings come into contact with opposing sides of the wellbore tubulars to define a sealing surface. Axial supports at opposing lateral ends of the seal rings maintain the seal between the tubulars.

Figure 1