

METAL-TO-METAL SEAL WITH WIPER ELEMENT AND WELLHEAD SYSTEM
INCORPORATING SAME

ABSTRACT

A wellhead or Christmas tree seal assembly (10) that forms a metal-to-metal seal between inner and outer wellhead or Christmas tree members (13, 11). U-shaped metal seals (29) having legs (30) that face in opposite directions, are bonded to a wiping element (31). During installation of the seal assembly (10), the ends (32) of the seal legs (30) seal against the wellhead members (11, 13) and the wiping element (31) compensates for defects on the surfaces of the wellhead members (11, 13). The wiping element (31) can be of an elastomer, metallic, or intercalated graphite material.

Figure 2A