

SUBSEA LOCKING CONNECTOR

Abstract of the Disclosure

A connector (11) is lowered onto and secured to a subsea member, effecting a seal between subsea member and the connector (11). The connector (11) includes an outer body (29) defining a cavity (43), and an inner body (27) defining a bore (39), wherein the lower end of the inner body (27) resides within the cavity (43). The connector (11) also includes an engaging member (53) coupled to the outer body (29) and adapted to engage the subsea device, the engaging member (53) radially movable between a disengaged position and an engaged position. The connector (11) includes a seal (41) carried by the inner body (27) and adapted to form a seal between the bore (39) and the subsea device. Finally, the connector (11) includes a pre-loading member (59) coupled to the outer body (29), operable to urge the inner body (27) and seal against the subsea device to exert a pre-loading force on the seal (41). A differential pressure between the bore (39) and a subsea environment energizes the seal (41).

Figure 1