

COUPLER FOR CONNECTING TUBULAR MEMBER WITHOUT
DEFORMATION OF TUBULAR MEMBER DUE TO CONCENTRATION
OF STRESS

ABSTRACT

A coupler connects a gas leakage testing system (21) to a pipe (22) forming a part of a high pressure fluid conduit system, and a stationary case (23/24) connected to the gas leakage testing system, a movable member (25/26) movable in the inner space of the stationary case in an axial direction (CL1/CL2) thereof, a coil spring (28) urging the movable member in the axial direction, a split clamper (27) arranged around the outer surface of the pipe and an axial force-to-radial force converter (23b/27a) provided between the movable member and the split clamper form in combination the coupler; when the coupler is attached to the pipe, the coil spring urges the movable member in the axial direction, and the axial force-to-radial force converter inwardly exerts a radial force on the split clamper so as to grasp the pipe; since the split clamper is held in surface contact with the pipe, the pipe is never deformed due to concentration of a stress.

FIGURE 2

This Sheet Has Been Replaced

