

RELEASABLE NUT-FREE C-CLIP SECURED PIPE FITTING

ABSTRACT OF THE DISCLOSURE

A releasable nut-free C-clip secured pipe fitting includes a pipe to be jointed, a C-clip, a sealing ring, and a pipe fitting. The pipe has a jointed end forming a circumferential groove for receiving the C-clip. The C-clip is a ring like member having an opening, which allows for expansion and contraction of the C-clip so as to allow the C-clip to be disposed in a converging surface formed on an inside wall of the pipe fitting. The sealing ring is received in a sealing ring groove defined in the inside wall of the pipe fitting. The pipe fitting has a tube end forming a holding bore having an inside diameter smaller than a diameter of the converging surface. The tube end of the pipe fitting forms openings through which a tool can extend into the pipe fitting to contract the C-clip for releasing the C-clip and the pipe.

Figure 1