



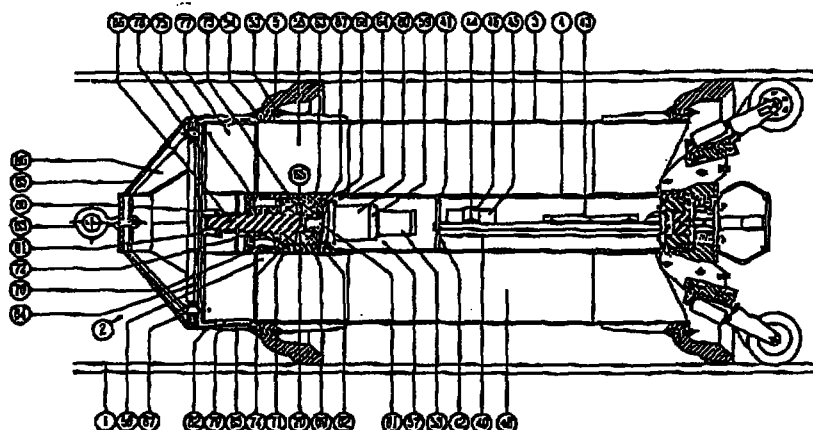
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(54) Title: APPARATUS FOR USE IN A PIPELINE ✓



(57) Abstract

An apparatus for use in a pipeline (1) is disclosed. The apparatus has a housing (3) through which pipeline fluids may enter from the rear of the housing (3), pass through the housing (3) and subsequently exit from the housing (3). A first bonnet (77), having several openings (78, 79), is mounted at the front of the housing (3) on a shaft (66) which is oriented parallel to the longitudinal axis of the housing (3). A second bonnet (82) is mounted on the housing (3) and fits over the first bonnet (77). The second bonnet (82) has openings (83, 84) which, when aligned with the openings (78, 79) in the first bonnet (77), permit the flow of pipeline fluid out of the housing (3) in various directions. The first bonnet (77) is movable in relation to the second bonnet (82) so as to vary the degree of alignment of the openings (78, 79, 83, 84) in the bonnets (77, 82). By varying the degree of alignment of the openings (78, 79, 83, 84) in the bonnets (77, 82), the flow of fluids through the housing (3) is regulated so as to control the speed of the apparatus. Although the bonnets (77, 82) may be of various shapes, the provision of openings (78, 79, 83, 84) on the surfaces of the bonnets (77, 82), which are contiguous with the outer surface of the housing (3) adjacent the exit opening, permits the exit of pipeline fluids radially from the housing (3). Accordingly, more pipeline fluid may be permitted to bypass the pig (2) and the speed of the pig (2) may be varied more substantially than has previously been known.