Title (en)
HYDRAULIC CONTROL OF A COUPLING OF A BACKFILLING PIPELINE FOR END DELIVERY

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Application
EP 88107991 A 19880519

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DE 3720295 A 19870619

Abstract (en)
[origin: EP0295447A1] A hydraulic control of a coupling of a backfilling pipeline for end delivery, with a displacing cylinder (4, 5) performing the coupling and uncoupling by axial movement, and a swivel cylinder (8) swinging out to the side and back in the uncoupled state of the respective pipeline end (3), which cylinders (4, 5, 8) are acted upon automatically in succession by means of limit switches, has the following construction: A first (27) and a second (28) pipeline start at a device (11, 26), by means of which they can be alternately connected as pressure pipeline and return pipeline. The first pipeline (27) passes with a first branch (35) through a first spool valve (36) into the cylinder space (6) of the displacing cylinder (4, 5) performing the uncoupling and with a second branch (37) through a second spool valve (38) into the cylinder space (9) of the swivel cylinder (8) producing the swing-out movement. The first spool valve (36) is arranged as a limit switch for the return movement of the swivel cylinder (8) in such a way that it opens the first branch (35) upon striking against a spring force (39) and otherwise keeps it closed by the spring force (39). The second spool valve (38) is arranged as a limit switch for the uncoupling movement of the displacing cylinder (4, 5) in such a way that it opens the second branch (37) upon striking against a spring force (41) and otherwise keeps it closed by the spring force (41). The second pipeline (28) passes with a first branch (43) into the cylinder space (7) of the displacing cylinder (4, 5) performing the coupling and with a second branch (44) into the cylinder space (10) of the swivel cylinder (8) producing the swing-back movement. <IMAGE>

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