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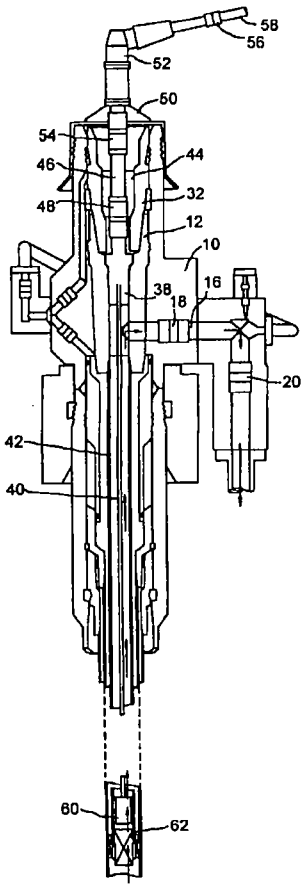
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(54) Title: COILED TUBING LINE DEPLOYMENT SYSTEM



(57) Abstract: A horizontal Christmas tree is adapted for ESP/HSP or downhole sensor deployment by a coiled tubing hanger 38 received in the tubing hanger 12. Coiled tubing 40 suspends downhole equipment such as ESP 60, and carries power/signal lines. These lines are connected to an external line 58 via a transition connector 46 in a tubing access plug 44 provided in an internal tree cap 32. A debris cap 50 is provided with a further connector 52. Self orientating wet mate connectors 48, 54, 56 are provided between the connectors 46, 52 and external line 58. The coiled tubing hanger and/or tubing hanger may be provided with flow by flutes or holes (78, 80 figures 4 and 5) sealable by a separate adapter plug (88, Fig 5) above the coiled tubing hanger. Flow test procedures are also disclosed.

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