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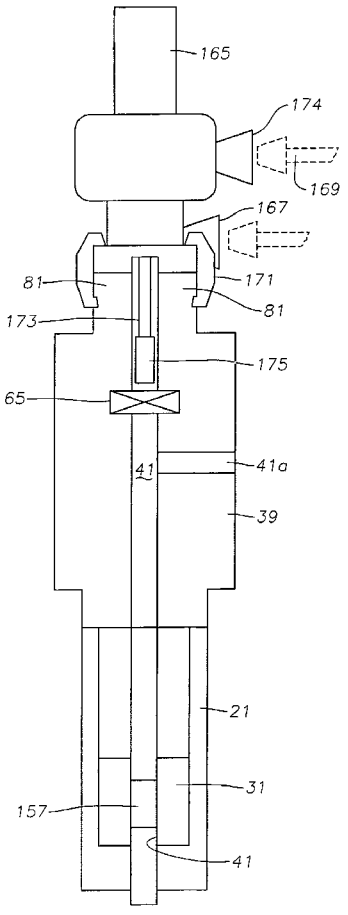
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(54) Title: PLUG INSTALLATION SYSTEM FOR DEEP WATER SUBSEA WELLS



(57) Abstract: A plug retrieval and installation tool is used with a subsea well having a production tree, a tubing hanger, a passage that extends vertically through the tubing hanger and the tree, and a plug located within a plug profile in the passage within the tubing hanger. The plug retrieval device has a housing and connector that is lowered on a lift line onto the upper end of the tree. An axially extensible stem in the housing is driven by drive mechanism into the production passage of the tubing hanger. A retrieval member mounted to the stem engages the plug and pulls it upwardly in the passage while the stem is being moved upward. The connector, drive mechanism and retrieval member are powered by an ROV.

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