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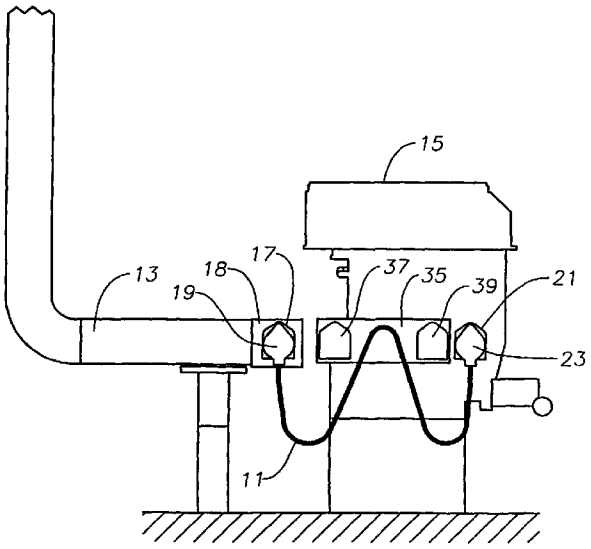
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(54) Title: STELL TUBE FLYING LEAD JUMPER CONNECTOR



(57) Abstract: A jumper (11) for transferring fluids from an umbilical to a subsea tree assembly has a plurality of steel tubes (27). The steel tubes are bent so that the jumper (11) is in a serpentine or w-shape while in a natural state. The steel allows and resists damage to the jumper (11) from the fluids and chemicals being transferred to the tree assembly. The w-shape of the jumper allows the jumper (11) to be stretched or contracted so the distance between the connectors (19, 23) on each end of the jumper can vary. The contracted width jumper (11) is attached to a terminal plate located on the tree assembly (15) as it is landed on a subsea wellhead. An ROV disconnects the jumper (11) and connects the jumper to receptors on the tree assembly and the umbilical (13), while stretching the jumper (11) to the necessary length to reach receptors. The jumper can be disconnected from the tree (15) assembly when maintenance is necessary without moving the umbilical (13).

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