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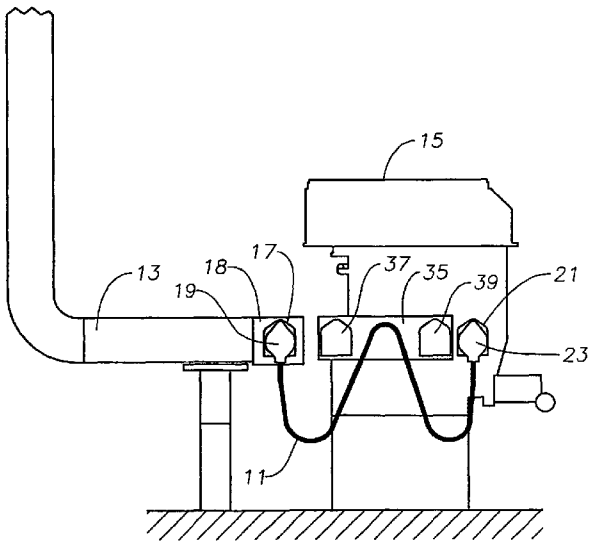
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(54) Title: STELL TUBE FLYING LEAD JUMPER CONNECTOR



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

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