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(54) Title: DOWNHOLE FIBER OPTIC WET MATE CONNECTIONS

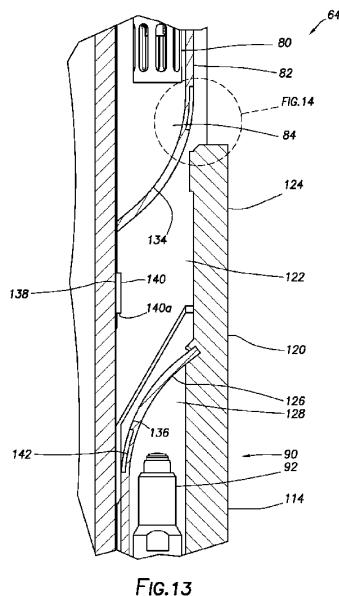


FIG. 13

(57) Abstract: A wet mate connection can include two connector assemblies, each connector assembly including at least one connector and a protective barrier displaceable between closed and open positions, and one connector assembly including an engagement device that displaces the protective barrier of the other connector assembly from the closed position to the open position in response to engagement between the connector assemblies. A method of making a connection between lines in a well can include installing a connector assembly, then installing another connector assembly, each connector assembly including a connector and an alignment profile, then axially compressing the connector assemblies, thereby opening protective barriers for the respective connectors, operatively connecting the connectors, and engaging the alignment profiles, thereby maintaining rotational alignment of the connectors. A system for use with a well can include a wet mate optical connection made between packers of the respective connector assemblies.

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