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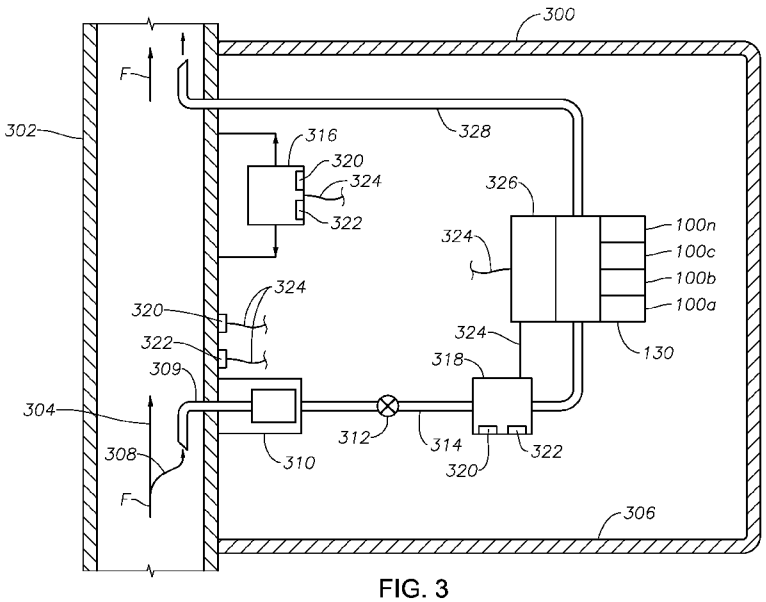


FIG. 3

(57) Abstract: The present invention is directed to an ICE computing device utilized to predict and/or mitigate the formation of hydrates along conduits comprising hydrocarbon fluid flow. The present invention utilizes one or more ICE structures to monitor fluid flow through a conduit in real-time to determine the potential for hydrate formation. If the computations generated by the ICE computing device indicate that the measured fluid composition and operating parameters are adequate for hydrate formation, then one or more mitigation techniques may be employed. Accordingly, hydrate formation may be predicted and mitigated to avoid costly remedial hydrate-related operations.

WO 2014/105015 A1