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(54) Title: SYSTEM, APPARATUS, AND METHOD FOR MONITORING A SUBSEA FLOW DEVICE

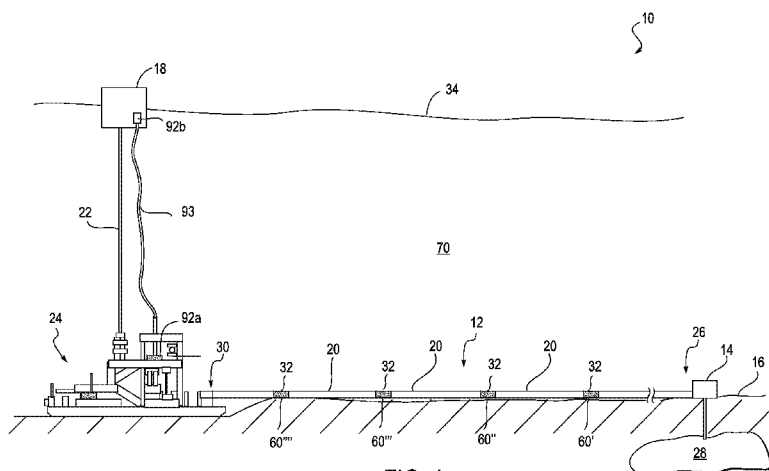


FIG. 1

(57) Abstract: A system, apparatus, and method are provided for monitoring a subsea flow device such as a subsea flowline. The apparatus generally includes a thermoelectric device that is adapted to generate electric power from a thermal potential between the subsea flow device and the surrounding seawater. A sensor that is powered by the thermoelectric device is adapted to monitor one or more characteristics of the flow device, such as temperature or strain, and provide a radiation output that is indicative of the characteristic.