SYSTEM AND METHOD FOR INDUCTIVE SIGNAL AND POWER TRANSFER FROM ROV TO IN RISER TOOLS

ABSTRACT

A subsea wellhead assembly having a completion landing string inside a drilling riser is described herein and comprises a power source for generating an alternating electrical current; a connector for connecting the power source to a receptacle in the subsea well assembly; a first inductor electrically connected to the power source through the connector; a subsea control module delivering power and control signals to the subsea well assembly; and a second inductor spaced from the first inductor, and located in the subsea control module, the second inductor positioned so that an EMF is produced on the second inductor when the alternating electrical current is passed through the first inductor to thereby generate an alternating current signal on the second inductor.

Figure 1