

CONTACTLESS UNDERWATER COMMUNICATION DEVICE

ABSTRACT

This invention provides, *inter alia*, communication devices for contactless underwater data transmission and reception. In one embodiment the present invention provides a transmitting device comprising (a) a water-tight housing; (b) a radiative element disposed outside of the housing, said radiative element comprising at least two antennae, wherein the radiative element is configured to propagate an electric field signal through water; and (c) a communications section disposed within the housing, said communications section being coupled to said radiative element, said communications section comprising at least one transmitter, wherein the communications section is configured to transmit digitally modulated data as an electric field signal propagated by the radiative element. Also provided are similarly constituted receiving devices, tranceiving devices, systems containing such devices and methods of using such devices and systems.

Figure 1