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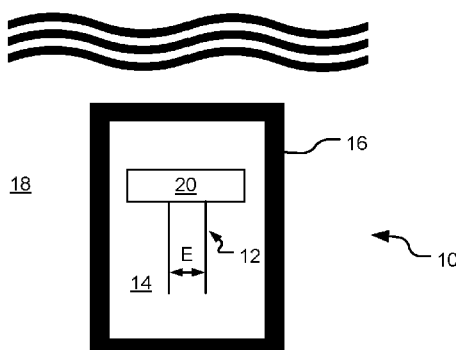


Figure 2

(57) Abstract: The invention concerns a device (10) for propagating electromagnetic waves through impure water such as seawater or brackish water. The device (10) comprises a body of polar material, for example pure water (14), contained in an enclosure (16), and an antenna (12) arranged to emit an electromagnetic signal into the polar material. Excitation of dipoles in the polar material by the electromagnetic signal causes them to re-radiate the signal, which is thereby emitted into and relatively efficiently propagated through the water in which the device (10) is submerged. The device (10) offers the possibility of improved underwater communication.

