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(54) **ELECTRICALLY CONDUCTIVE
RESONATOR FOR COMMUNICATIONS**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A resonator comprising: an insulating layer having a top side
and a bottom side; a conductive layer mounted to the bottom
side of the insulating layer; a radio frequency (RF) connec-
tor designed to be connected to a transceiver, wherein the RF
connector is mounted to the top side of the insulating layer,
and wherein the RF connector has a center conductor that is
electrically connected to the conductive layer; and means for
attaching the conductive layer to a conductive structure,
wherein the conductive structure has a dimension of at least
one-half wavelength of an operating frequency of the trans-
ceiver such that when the resonator is attached to the
transceiver and to the conductive structure the conductive
structure functions as an antenna.

10 Claims, 8 Drawing Sheets

