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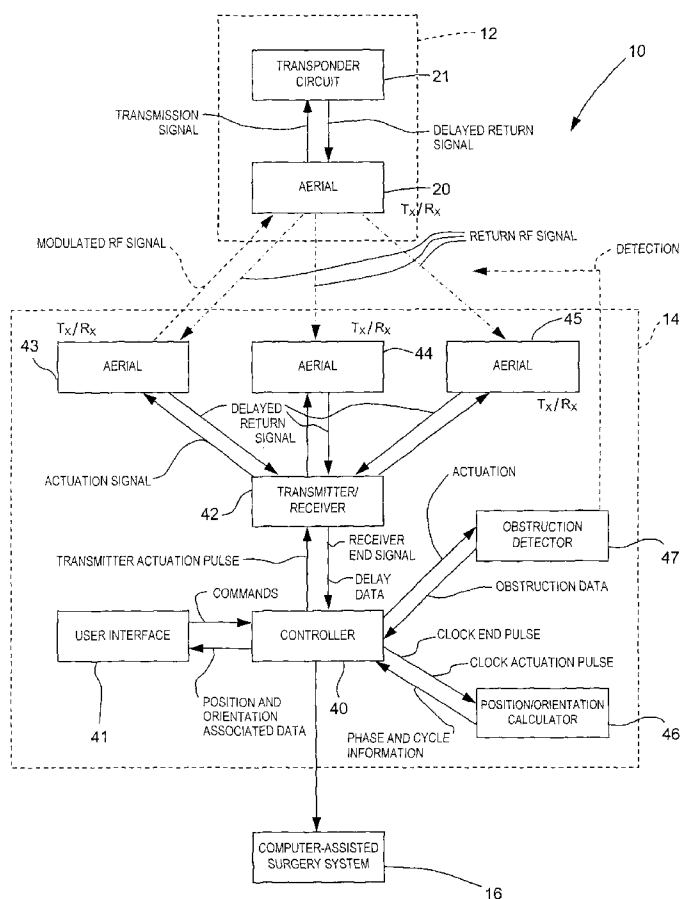
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(54) Title: RF SYSTEM FOR TRACKING OBJECTS



(57) Abstract: A system (10) for tracking an object in space for position, comprises a transponder device (12) connectable to the object. The transponder device (12) has one or several transponder aerial(s) (20) and a transponder circuit (21) connected to the transponder aerial (20) for receiving an RF signal through the transponder aerial (20). The transponder device (12) adds a known delay to the RF signal thereby producing an RF response for transmitting through the transponder aerial (20). A transmitter (42) is connected to a first aerial (43) for transmitting the RF signal through a first aerial (43). A receiver (42) is connected to the first, a second and third aerials (43, 44, 45) for receiving the RF response of the transponder device (12) therethrough. A position calculator (46) is associated to the transmitter (42) and the receiver (42) for calculating a position of the object as a function of the known delay and the time period between the emission of the RF signal and the reception of the RF response from the first, second and third aerials (43, 44, 45). A method is also provided.



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