

ABSTRACT

ON-BOARD TRANSPONDER DEVICE AND METHOD OF
VERIFYING SOUNDNESS THEREOF

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The present invention includes a telegraph controller 21 and an FSK modulator 22 that serve as a signal transmission unit that creates a checking telegraph 18 that is different from a controlling telegraph and transmits the checking telegraph 18 to a pickup coil 16, an FSK demodulator 24 and a telegraph controller 25 that serve as a signal reception unit that restores telegraph information from the checking telegraph 18 received via the pickup coil 16, and a communication controller 20 that compares transmission telegraph information included in a checking telegraph transmitted from the signal transmission unit with reception telegraph information restored from a received checking telegraph that includes the transmission telegraph information to verify a telegraph reception function on an on-board side.

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Figure 2