

Title (en)
Loudspeaker line examination system

Title (de)
LAUTSPRECHERLEITUNGS-INSPEKTIONSEINRICHTUNG

Title (fr)
DISPOSITIF D'INSPECTION DE LIGNE DE HAUT-PARLEUR

Publication
EP 2584792 B1 20140416 (EN)

Application
EP 13151672 A 20080110

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• EP 13151672 A 20080110
• EP 08703062 A 20080110
• JP 2008050198 W 20080110

Abstract (en)
[origin: EP2229006A1] [Object] An audio signal from an audio signal source 2 is amplified in an amplifier 4, and the amplified audio signal is supplied through a loudspeaker line 6 to a plurality of loudspeakers 8 connected in parallel with each other. A test signal from a DSP 10 containing one or both of a frequency near the lowest frequency of the human audio frequency band and a frequency near the highest frequency, is combined with the audio signal in a combiner 13 and supplied to the loudspeaker line 6. Output signals of a current detecting circuit 14 and a voltage detecting circuit 16 disposed in the output of the amplifier 4 are supplied to a DSP 10 to analyze frequency components of the test signal, and a composite impedance of the loudspeakers 8 and the loudspeaker line 6 is computed based on the frequency component analysis. The DSP 10 compares the composite impedance with a threshold value to detect line breakage or decrease in impedance of the loudspeaker line.

IPC 8 full level
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CPC (source: EP)
H04R 29/001 (2013.01); **H04R 29/007** (2013.01)

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