

Title (en)

Device for transmitting signals between a transmitter and a receiver

Title (de)

Anordnung zur Signalübertragung zwischen einer Geberstelle und einer Empfangsstelle

Title (fr)

Dispositif pour la transmission de signaux entre un émetteur et un récepteur

Publication

EP 0883097 B1 20030319 (DE)

Application

EP 98109740 A 19980528

Priority

DE 19723645 A 19970605

Abstract (en)

[origin: EP0883097A2] The system passes an analogue signal current varying between two limits over the cable. The current represents a measurement value detected by a sensor (16) and forms the supply current required for the operation of the transmitter (10), which contains a circuit which derives a constant operating voltage. A controllable current source (32) determines the current flowing over the two-wire cable (14) depending on the measurement value. The circuit generating the transmitter operating voltage is a switching regulator (36). The output voltage from a voltage source (34) in the transmitter varies in opposition to the signal current and forms the input voltage to the downward switching regulator.

IPC 1-7

G08C 19/02

IPC 8 full level

G08C 19/02 (2006.01); **H04M 11/04** (2006.01)

CPC (source: EP US)

G08C 19/02 (2013.01 - EP US)

Cited by

DE102007062919A1; CN105900023A; EP2346011A4; DE10034684A1; CN104024809A; DE29917651U1; EP2439711A1; DE19919084A1; DE19919084C2; US6437581B1; US8718152B2; US6512358B2; US10067081B2; WO2015090758A1; WO2013097989A1; US6577989B2; US8595519B2; EP1158274B1; WO2010014102A1; WO0075904A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0883097 A2 19981209; EP 0883097 A3 19990217; EP 0883097 B1 20030319; DE 19723645 A1 19981210; DE 19723645 B4 20060413; DE 59807514 D1 20030424; JP 2960717 B2 19991012; JP H1116082 A 19990122; US 6140940 A 20001031

DOCDB simple family (application)

EP 98109740 A 19980528; DE 19723645 A 19970605; DE 59807514 T 19980528; JP 15572798 A 19980604; US 8968898 A 19980603