

Title (en)

ELECTRONIC DECOUPLING INDUCTOR FOR APPLICATIONS IN ACTUATOR SENSOR INTERFACE NETWORKS

Title (de)

ELEKTRONISCHE ENTKOPPELINDUKTIVITÄT FÜR ANWENDUNGEN IN AKTUATOR-SENSOR-INTERFACE-NETZWERKEN

Title (fr)

INDUCTANCE DE DECOUPLAGE ELECTRONIQUE DESTINEE A ETRE UTILISEE DANS DES RESEAUX DE TYPE INTERFACE ACTIONNEUR-CAPTEUR

Publication

EP 1692762 A1 20060823 (DE)

Application

EP 04802872 A 20041203

Priority

- DE 2004002664 W 20041203
- DE 10357332 A 20031205

Abstract (en)

[origin: WO2005057783A1] Disclosed is an electronic decoupling inductor for applications in actuator sensor interface networks. Said electronic decoupling inductor represents a subassembly that is independent from the actuator sensor interface IC (AS-I IC), is designed as a bipolar gyrator circuit without reference to ground, and comprises a base-controlled transistor, a capacitor with a charging resistor for influencing the current rise through the transistor when current flows, a voltage divider for adjusting the operating point of the transistor, and an appropriate RC constant of the base-emitter resistor and capacitor in order to block the high-frequency data signals as well as propagation of current changes on the AS interface bus (AS-I bus). The inventive electronic decoupling inductor directly replaces a wound inductor.

IPC 8 full level

H03H 11/48 (2006.01); **H03H 11/42** (2006.01); **H04B 3/54** (2006.01); **H04B 3/56** (2006.01)

CPC (source: EP)

H03H 11/42 (2013.01); **H03H 11/50** (2013.01)

Citation (search report)

See references of WO 2005057783A1

Citation (examination)

US 4592069 A 19860527 - REDDING ROBERT JAMES [GB]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005057783 A1 20050623; DE 10357332 A1 20050825; EP 1692762 A1 20060823

DOCDB simple family (application)

DE 2004002664 W 20041203; DE 10357332 A 20031205; EP 04802872 A 20041203