

Title (en)

CIRCUIT FOR OPERATING ELECTROMAGNETIC USERS.

Title (de)

SCHALTUNGSAORDNUNG ZUM BETRIEB VON ELEKTROMAGNETISCHEN VERBRAUCHERN.

Title (fr)

CIRCUITS DE COMMANDE DE CONSOMMATEURS ELECTROMAGNETIQUES.

Publication

EP 0429573 A1 19910605 (DE)

Application

EP 90906897 A 19900516

Priority

DE 3920064 A 19890620

Abstract (en)

[origin: WO9015922A1] The invention relates to a circuit for operating electromagnetic users, especially magnetic valves in internal combustion engines. To ensure the lowest possible losses, it is proposed to provide at least two mutually independent controllable connecting devices (4, 5) which apply different voltages (U1?, U2?) to the user (1).

Abstract (fr)

Des circuits servent à commander des consommateurs électromagnétiques, notamment des soupapes magnétiques de moteurs à combustion interne. Afin de réduire autant que possible la dissipation de puissance, au moins deux organes commutateurs (4, 5) susceptibles d'être commandés indépendamment l'un de l'autre appliquent des tensions (U1, U2) différentes au consommateur (1).

IPC 1-7

F02D 41/20

IPC 8 full level

F02D 41/20 (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP)

F02D 41/20 (2013.01); **F02D 2041/2003** (2013.01); **F02D 2041/2013** (2013.01); **F02D 2041/2031** (2013.01)

Citation (search report)

See references of WO 9015922A1

Cited by

US7738234B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9015922 A1 19901227; BR 9006811 A 19910806; DE 3920064 A1 19910103; DE 59002301 D1 19930916; EP 0429573 A1 19910605; EP 0429573 B1 19930811; JP H04500399 A 19920123

DOCDB simple family (application)

DE 9000361 W 19900516; BR 9006811 A 19900516; DE 3920064 A 19890620; DE 59002301 T 19900516; EP 90906897 A 19900516; JP 50730990 A 19900516