Title (en)

CONTROL AND OUTPUT LOAD CIRCUIT

Publication

**EP 0168864 B1 19891018 (DE)**

Application

**EP 85200955 A 19850618**

Priority

CH 318684 A 19840703

Abstract (en)

[origin: EP0168864A1] 1. Circuit wit a.d.c.-d.c. converter (15) according to the principle of the switching controller with a rigid clock frequency and pulse length modulation, which by means of a closed control loop supplies a variable output current with a constant output voltage (Ua ), with a load (27) supplied by the output current and whose power consumption is suddenly variable and with a control (30), which controls the power consumption of load (27) and the output current of the converter in such a way that for each sudden power consumption change, with minor variations to the control loop, the output current is directly adapted to the modified power consumption, characterized in that the load (27) comprises a plurality of electromagnetic transducers (51, 52), which can be individually switched on and off, that a further load (26) is provided, whose power consumption is substantially constant and that the control (30) is a selection control (55, 56) for the simultaneous, planned switching on and off of a random number of electromagnetic transducers (51, 52) and for controlling the converter in such a way that the length of the switch-on intervals (p, q) of the d.c.-d.c. converter (15) is in each case modified synchronously with the switch-on time and the duration of the switch-on intervals of the electromagnetic transducers (51, 52) and as a function of the number of the each case switched on electromagnetic transducers (51, 52), that it (15) continuously supplies an output current, whereof the quantity of its intensity constantly corresponds to the total power consumption of both loads (26, 27).

IPC 1-7

G05F 1/575; H02M 3/335

IPC 8 full level

**G05F 1/575** (2006.01); **H02M 3/335** (2006.01)

CPC (source: EP US)

**G05F 1/575** (2013.01 - EP US)

Cited by

EP0592804A1

Designated contracting state (EPC)

CH DE FR GB LI NL SE

DOCDB simple family (publication)

**EP 0168864 A1 19860122**; **EP 0168864 B1 19891018**; DE 3573867 D1 19891123

DOCDB simple family (application)

**EP 85200955 A 19850618**; DE 3573867 T 19850618