

Title (en)
CIRCUIT ARRANGEMENT FOR CONTROLLING A GROUP OF RELAYS

Publication
EP 0471891 A3 19920812 (DE)

Application
EP 90124625 A 19901218

Priority
DE 4026427 A 19900821

Abstract (en)
[origin: EP0471891A2] For controlling a group of relays in a low-power manner, a lower latching voltage and, for a short time in each case when switching on an additional relay, an increased actuating voltage are generated via a voltage regulator (VC) in normal operation. The switching-on of an additional relay is detected as a current rise by means of a current measuring device (RS, OP1) and is evaluated to generate a regulation signal (i) for the voltage regulator (VC). <??>In this way, the operating voltage can be regulated in a simple manner for any number of relays which can be individually switched on and used at different sites, such that no excessive heat loss occurs. Since there is no need for either a state measurement or individual voltage regulation, the cost of both sensor leads and circuit elements is low and, in particular, is independent of the number of relays.
<IMAGE>

IPC 1-7
H01H 47/04

IPC 8 full level
H01H 47/22 (2006.01); **H01H 47/04** (2006.01)

CPC (source: EP US)
H01H 47/04 (2013.01 - EP US)

Citation (search report)

- [A] DE 2000117 A1 19710708 - ANKER WERKE AG
- [A] US 4905120 A 19900227 - GREMBOWICZ CONRAD G [US], et al
- [A] US 4227230 A 19801007 - BRAY WILLIAM E
- [AD] DE 3615908 A1 19871119 - SIEMENS AG [DE]
- [XP] EP 0392058 A1 19901017 - SIEMENS AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 139 (E-253)(1576) 28. Juni 1984 & JP-A-59 047 714 (MATSUSHITA) 17. März 1984

Cited by
EP1965403A3; CN109713760A; US7684168B2

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)
EP 0471891 A2 19920226; EP 0471891 A3 19920812; CA 2049469 A1 19920222; DE 4026427 C1 19920213; JP H04315723 A 19921106; US 5317475 A 19940531

DOCDB simple family (application)
EP 90124625 A 19901218; CA 2049469 A 19910819; DE 4026427 A 19900821; JP 20777691 A 19910820; US 69849791 A 19910503