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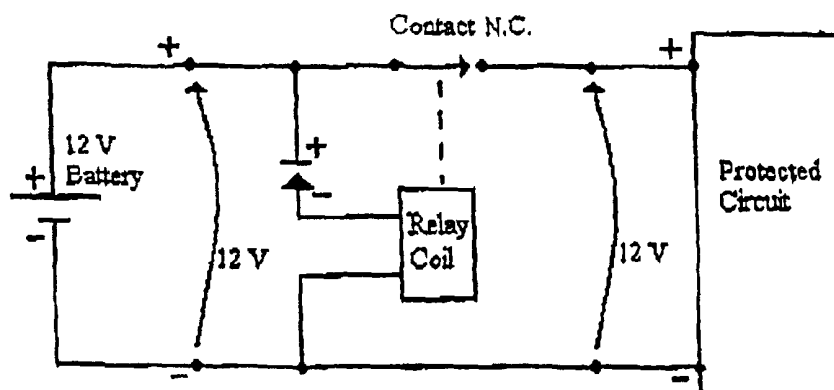
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(54) Title: PROTECTIVE RELAY



(57) Abstract: A protective relay is provided to protect circuitry against reverse battery polarity or load dump, wherein a relay coil is operatively connected to a contact switch and is fed by a reverse bias diode (which may be a Zener diode) such that the relay coil opens the switch contact when the diode is energized to protect the circuitry; wherein the protective relay optionally includes a positive temperature coefficient resistor or a current resource to protect the relay coil from overheating.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02H11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 519 559 A (DIDES CHRISTIAN ET AL) 21 May 1996 (1996-05-21)	1, 2, 5
Y	the whole document	3
X	DE 197 02 116 A (SIEMENS AG ; IAV GMBH INGENIEURGESELLSCHAFT (DE)) 23 July 1998 (1998-07-23) column 2, line 7 - line 28; figures 2, 3	1, 6, 7
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Y	GB 2 336 481 A (OTTER CONTROLS LTD) 20 October 1999 (1999-10-20) abstract	3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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