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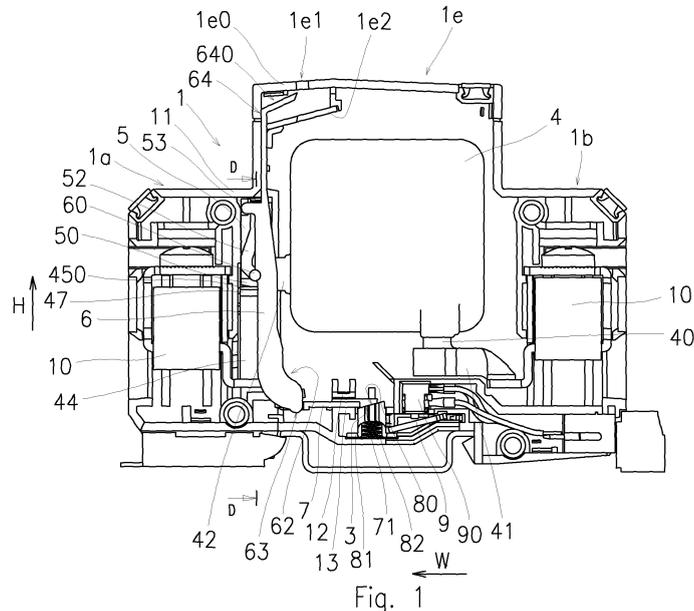
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(54) **Device for overvoltage protection with protection status signalling**

(57) The invention relates to the device for overvoltage protection with protection status signalling, which comprises the spring-loaded shifting member (5), which is in direction of its length positioned displaceably and is provided with profiled guiding groove (52), into which engages the first pin (60) of signalling lever (6), which is provided with an end (64) for visual signalling in a window (1 e1) in the body (1), at the same time the shifting member (5) acts by a pressing force upon the second electrically conductive member (44) and its first low-melting

joint (43) with second electrode (42) of non-linear resistance element (4), while the second electrically conductive member (44) is further connected with connecting terminal (10) of the device. The shifting member (5) is by its length situated in direction (H) of height of the body (1) and on its end at the wall (11) of the body (1) it is provided with retaining recess (53) opened from above,, the retaining recess (53) has a shorter length than the length of profiled guiding groove (52), and into the retaining recess (53) is extending the second pin (61) of signalling lever (6).





EUROPEAN SEARCH REPORT

Application Number
EP 09 17 7872

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	DE 42 41 311 A1 (PHOENIX CONTACT GMBH & CO [DE]) 9 June 1994 (1994-06-09) * column 2, lines 15-60 * * column 4, lines 35-45; figures 1,2,3 * * the whole document * -----	1-5	INV. H01C7/12 H01T1/12
Y	EP 1 650 771 A1 (LEGRAND SA [FR]; LEGRAND SNC [FR] LEGRAND FRANCE [FR]; LEGRAND SNC [FR]) 26 April 2006 (2006-04-26) * paragraphs [0007], [0017], [0025], [0052], [0053]; claims 1,5; figures 1a,4A * -----	1-5	
X	EP 0 905 839 A1 (FELTEN & GUILLEAUME AG OESTER [AT]) 31 March 1999 (1999-03-31) * paragraphs [0052], [0062]; figures 1c,1b * * the whole document * -----	1-5	
A	EP 1 826 795 A1 (ABB FRANCE [FR]) 29 August 2007 (2007-08-29) * the whole document * -----	1-3	TECHNICAL FIELDS SEARCHED (IPC) H01C H01T
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 June 2010	Examiner Dessaux, Christophe
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

2
EPO FORM 1503 03.02 (P04C01)



Application Number

EP 09 17 7872

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**Application Number
EP 09 17 7872

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3

Device for overvoltage protection with protection status signalling, characterized in that the shifting member (5) is by its length situated in direction (H) of height of the body (1) and on its end at the wall (11) of the body (1) it is provided with retaining recess (53) opened from above, the retaining recess (53) has a shorter length than the length of profiled guiding groove (52), and into the retaining recess (53) is extending the second pin (61) of signalling lever (6).

2. claims: 4, 5

Device according to any of the claims 1 to 3, characterised in that, the signalling lever (6) is provided with end (62) for remote signalling, on which is situated the pin (63), which extends into the guiding gap (70) in shifting plate (7), which is linear displaceably in direction (W) of width of the body (1) mounted in the body (1) at the lower edge of the body (1), and which is provided with askew surface (71), on which is by its askew face (80) sitting the hollow spring-loaded shifting pin (8), which is coupled with the lever (9) of remote signalling, to which there is assigned the detector (90) of pin extension (8).

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 09 17 7872

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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04-06-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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