

Title (en)  
SECURITY RELAY

Title (de)  
SICHERHEITSRELAIS

Title (fr)  
RELAIS DE SECURITE

Publication  
**EP 1121700 B1 20020612 (DE)**

Application  
**EP 99947445 A 19991001**

Priority  
• DE 19847831 A 19981016  
• EP 9907278 W 19991001

Abstract (en)  
[origin: WO0024019A1] The invention relates to a relay having a base body (1) over which an electromagnet system (31, 35, 37) is placed, said electromagnet system actuating at least one pair of closing relay springs (23A1, 23A2, 25A1, 25A2) and at least one pair of opening relay springs (23R, 25R). Actuation is carried out by means of a slide (40) which exhibits actuating cams (51, 52) located at different heights relatively to the mounting of the active relay springs (25) and designed for actuating the active opening relay springs at a height which is different from that of the active closing relay springs. Consequently, the characteristic curve of the magnetic system can be better adjusted to the characteristic curve of the relay springs.

IPC 1-7  
**H01H 50/64**

IPC 8 full level  
**H01H 50/64** (2006.01)

CPC (source: EP US)  
**H01H 50/642** (2013.01 - EP US)

Cited by  
EP2704174A1; DE102012017157A1; US8810343B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0024019 A1 20000427**; AT E219285 T1 20020615; DE 19847831 A1 20010809; DE 19847831 C2 20021121; DE 59901764 D1 20020718; EP 1121700 A1 20010808; EP 1121700 B1 20020612; EP 1121700 B2 20070606; US 6906604 B1 20050614

DOCDB simple family (application)  
**EP 9907278 W 19991001**; AT 99947445 T 19991001; DE 19847831 A 19981016; DE 59901764 T 19991001; EP 99947445 A 19991001; US 80768903 A 20030519