

Title (en)  
Switch device

Title (de)  
Schaltvorrichtung

Title (fr)  
Dispositif commutateur

Publication  
**EP 1073075 B1 20020417 (EN)**

Application  
**EP 00116031 A 20000726**

Priority  
JP 21053599 A 19990726

Abstract (en)  
[origin: EP1073075A1] A switch device for a refrigerator is disclosed wherein, even in the event of occurrence of an arc in contact portions at the time of switching, contact portions in the initial abutment and contact portions to be kept in a contacted state are made different from each other to prevent an increase of contact resistance and which, due to a sliding motion, can attain a cleaning effect for the surfaces of contact portions, thus permitting the contact resistance to be stabilized, and can therefore be applied even to a switch used with a very small current. The switch device comprises a case having a receptacle portion, an operating lever attached to the case movably, a return spring for urging the operating lever in a return direction, a fixed contact disposed within the case, and a movable contact retained at a free end of the operating lever and adapted to move into contact with and away from the fixed contact, wherein an abutment portion of the movable contact for abutment against the fixed contact is formed using an elastically deformable material, the abutment portion of the movable contact, during return of the operating lever in its return direction with the urging force of the return spring, comes into abutment against the fixed contact and undergoes a further elastic deformation under the urging force of the return spring, while when the operating lever stops, the abutment portion of the movable contact comes into contact with the fixed contact at a position different from the abutment position assumed during the return of the operating lever. <IMAGE>

IPC 1-7  
**H01H 1/24**; **H01H 13/52**

IPC 8 full level  
**H01H 21/12** (2006.01); **H01H 1/18** (2006.01); **H01H 1/20** (2006.01); **H01H 1/24** (2006.01); **H01H 1/36** (2006.01); **H01H 1/60** (2006.01); **H01H 9/02** (2006.01); **H01H 21/28** (2006.01)

CPC (source: EP)  
**H01H 1/242** (2013.01); **H01H 21/282** (2013.01)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1073075 A1 20010131**; **EP 1073075 B1 20020417**; CN 1129153 C 20031126; CN 1282086 A 20010131; DE 60000128 D1 20020523; DE 60000128 T2 20021205; JP 2001035313 A 20010209

DOCDB simple family (application)  
**EP 00116031 A 20000726**; CN 00121344 A 20000721; DE 60000128 T 20000726; JP 21053599 A 19990726