

Title (en)  
Electrical rotary switch

Title (de)  
Elektrischer Drehschalter

Title (fr)  
Commutateur électrique rotatif

Publication  
**EP 0984473 B1 20030402 (DE)**

Application  
**EP 99113197 A 19990708**

Priority  
DE 19839187 A 19980828

Abstract (en)  
[origin: EP0984473A1] The switch has an actuating knob mounted in a housing that is mounted on one or two sides on at least three balls (5-7) in a cage and roller groove. Radial and axial wall rolling surfaces have contact segments (13) and contact paths (14) fed out of the housing via connecting elements and short circuited by one of the balls (5) in predefined switching positions. In the last switching position a contact between an additional contact segment (19) and at least two additional contact tracks (20,21) is made via the other two balls.

IPC 1-7  
**H01H 19/10**

IPC 8 full level  
**H01H 19/56** (2006.01); **H01H 1/16** (2006.01); **H01H 3/52** (2006.01); **H01H 19/10** (2006.01)

CPC (source: EP US)  
**H01H 1/16** (2013.01 - EP US); **H01H 19/10** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0984473 A1 20000308**; **EP 0984473 B1 20030402**; DE 19839187 A1 20000309; DE 19839187 C2 20020711; DE 59904816 D1 20030508; ES 2193628 T3 20031101; JP 2000076949 A 20000314; US 6180901 B1 20010130

DOCDB simple family (application)  
**EP 99113197 A 19990708**; DE 19839187 A 19980828; DE 59904816 T 19990708; ES 99113197 T 19990708; JP 24009999 A 19990826; US 37556799 A 19990817