

Title (en)
Multipole circuit breaker

Title (de)
Mehrpolarer Schutzschalter

Title (fr)
Disjoncteur multipolaire

Publication
EP 0616347 B1 19980311 (DE)

Application
EP 94101023 A 19940125

Priority
DE 9303918 U 19930317

Abstract (en)
[origin: EP0616347A1] A single-pole or multipole circuit breaker has a housing which consists of a housing shell (1), of a closure shell (2) which can be fitted thereon and, in between, of a cavity (23) which acts as a pole chamber. The pole chamber contains a switching mechanism having at least one release lever (6), which is mounted such that it can pivot, for tripping the circuit breaker. The circuit breaker housing contains n identical housing intermediate shells (55), which can be inserted like a sandwich between the housing shell (1) and the closure shell (2). The housing intermediate shell (55) acts facing the housing shell (1) in the manner of a closure shell (2) and facing the closure shell (2) in the manner of a housing shell (1). Using n-1 housing intermediate shells (55), n pole chambers are formed, where $1 \leq n < \text{INFINITY}$. The identical switching levers are coupled to one another in order jointly to trip all the poles by means of an integral coupling rod (47, 49) which passes through the switching levers in the row direction (3) of the housing intermediate shells (55) and whose length is matched to the number of poles and to the pole chamber width of the circuit breaker. <IMAGE>

IPC 1-7
H01H 71/02; **H01H 73/26**

IPC 8 full level
H01H 73/06 (2006.01); **H01H 71/02** (2006.01); **H01H 71/10** (2006.01); **H01H 73/24** (2006.01); **H01H 73/26** (2006.01)

CPC (source: EP KR US)
H01H 71/02 (2013.01 - KR); **H01H 71/0207** (2013.01 - EP US); **H01H 71/1009** (2013.01 - EP US); **H01H 73/26** (2013.01 - EP KR US)

Cited by
CN102915857A; CN102804319A; EP1037238A3; DE102009025514A1; WO2010145757A1; DE102009025513A1; DE202010018176U1

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

DOCDB simple family (publication)
EP 0616347 A1 19940921; **EP 0616347 B1 19980311**; AT E164027 T1 19980315; DE 59405409 D1 19980416; DE 9422029 U1 19970918; DK 0616347 T3 19981007; ES 2115086 T3 19980616; JP 2760944 B2 19980604; JP H06325679 A 19941125; KR 0151219 B1 19981015; KR 940022612 A 19941021; TW 289832 B 19961101; US 5451729 A 19950919

DOCDB simple family (application)
EP 94101023 A 19940125; AT 94101023 T 19940125; DE 59405409 T 19940125; DE 9422029 U 19940125; DK 94101023 T 19940125; ES 94101023 T 19940125; JP 4711494 A 19940317; KR 19940004979 A 19940314; TW 83100717 A 19940128; US 21415194 A 19940317