

Title (en)  
A pole connector for in-series circuit breakers

Title (de)  
Polverbinder für Reihenschaltung

Title (fr)  
Connecteur polaire pour disjoncteurs en série

Publication  
**EP 2645487 B1 20140924 (EN)**

Application  
**EP 12460013 A 20120329**

Priority  
EP 12460013 A 20120329

Abstract (en)  
[origin: EP2645487A1] The invention relates to a pole connector for in-series circuit breakers, and in particular miniature circuit breakers (MCB) installed alongside each other on a busbar. The connector is made in the form of an aluminum conducting element (1) comprising conducting terminals (3) and cooling ribs (4a) of a length of (Sa) located on the front of the connector. The connector according to the invention has additional cooling ribs (4b) of a length of (Sb) which make a fragment of the conducting element (1), which are located on the rear of the connector and which preferably are grouped in pairs between which a free space (6) is formed to let exhaust gases escape from individual circuit breakers, when the connectors have been mounted on the circuit breaker set. The external surface of the aluminum conducting element (1) with the ribs (4a) and (4b), with the exception of the conducting terminals (3), is covered with an electrically insulating coat (5) made of polyamide material of thermal conductivity exceeding 0.2 W/(m·K) and of dielectric strength of at least 15 kV/mm, or of polyurethane material of thermal conductivity exceeding 0.1 W/(m·K) and of dielectric strength of at least 10 kV/mm, which sticks tightly to the external surface of the conducting element (1).

IPC 8 full level  
**H01R 9/26** (2006.01); **H01H 71/00** (2006.01)

CPC (source: EP)  
**H01H 9/342** (2013.01); **H01H 9/52** (2013.01); **H01H 71/082** (2013.01); **H01H 71/1045** (2013.01); **H01R 9/2675** (2013.01); **H01H 2011/0037** (2013.01)

Cited by  
CN106463293A; KR20190003249A; GB2587467A; GB2587467B; GB2545446A; GB2545446B; US9536680B2; US11302502B2; US10494119B2; WO2015195192A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2645487 A1 20131002; EP 2645487 B1 20140924**; ES 2525035 T3 20141216

DOCDB simple family (application)  
**EP 12460013 A 20120329**; ES 12460013 T 20120329