

Title (en)
Electrical switchgear.

Title (de)
Elektrische Schaltanlage.

Title (fr)
Installation de commutation.

Publication
EP 0011972 A2 19800611 (EN)

Application
EP 79302617 A 19791119

Priority
• GB 7846357 A 19781128
• GB 7918466 A 19790525

Abstract (en)
On opening of a circuit breaker, an end portion 19 of a pivotable contact arm 12 disengages from fixed contacts 7 such that an arc is drawn therebetween radially across the pole face of a field coil 9, the end portion 19 moving transversely to the field coil axis. The arc then transfers from the contacts 7 to a tubular electrode 24 thereby bringing the field coil 9 into circuit so that a magnetic field is generated which causes the arc to rotate and become extinguished. In the fully-open position of the circuit breaker, the end portion 19 lies along the field coil axis. The whole assembly is disposed in a housing 2 which contains the highly insulating gas sulphur hexafluoride. A single field coil and electrode can be shared between two such constructions. Arrangements are also disclosed in which the initial arc is drawn directly between the contact arm 12 and the electrode 24.

IPC 1-7
H01H 33/18; H02B 13/00

IPC 8 full level
H01H 33/18 (2006.01)

CPC (source: EP)
H01H 33/187 (2013.01)

Cited by
CN103109419A; EP0676782A3; EP0382327A3; EP0021577A1; EP0020045A1; FR2681979A1; EP0053524A1; FR2494493A1; US4529853A; DE3736165A1; FR2605796A1; EP0766277A3; USRE37244E; EP0012522B1

Designated contracting state (EPC)
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EP 0011972 A2 19800611; **EP 0011972 A3 19800806**; **EP 0011972 B1 19840118**; **EP 0011972 B2 19890823**; DE 2966563 D1 19840223

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