

Title (en)
CONTACT SYSTEM FOR GAS BLAST CIRCUIT BREAKER

Publication
EP 0069694 A3 19840926 (DE)

Application
EP 82730074 A 19820602

Priority
DE 3126744 A 19810702

Abstract (en)
[origin: US4439652A] A contact system for a gas blast circuit breaker has a nozzle-shaped fixed first contact piece, a coaxially mounted nozzle-shaped axially movable second contact piece and a movable bridging element common to both contact pieces. Spring biasing serves to urge the end faces of the first and second contact pieces together in the breaker make position. The breaker driving means moves the bridging contact piece out of a position of electrical connection between the first and second contact pieces during the breaking process, before the second contact is separated from the first contact. The arc at breaking is thus drawn only between the first and second contact pieces which are fitted with graphite electrodes to resist burn-off. This protects the current paths which are intended to carry the rated current and the short circuit current in the make position from damage due to arcing. And since the contact elements of the bridging contact piece which transfer the rated current do not participate in guiding the arc, the dielectric strength of the arc gap is increased.

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H01H 33/91

IPC 8 full level
H01H 33/12 (2006.01); **H01H 33/91** (2006.01); **H01H 33/915** (2006.01)

CPC (source: EP US)
H01H 33/12 (2013.01 - EP US); **H01H 33/91** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
CH DE FR GB LI

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