

Title (en)
Disposition of contacts for a vacuum switch.

Title (de)
Kontaktanordnung für Vakuumschalter.

Title (fr)
Disposition de contacts pour interrupteur à vide.

Publication
EP 0062186 A1 19821013 (DE)

Application
EP 82102093 A 19820315

Priority
DE 3112009 A 19810326

Abstract (en)
[origin: US4459446A] A configuration for a contact arrangement is disclosed for a switch having two coaxially positioned and generally cylindrical contacts. Each contact contains a coaxial core of ferromagnetic material, and a current-carrying envelope surrounding the core has the form of a helix. The helical envelope creates a current component which sets up a magnetic field in the widening contact gap when the contacts are separated that disperses arcing. Moreover, the field reinforces the closure pressure when the contacts are in their closed position. Ellipsoid shaping enables the field to be normal at all points of the contact-making surfaces.

Abstract (de)
Wenigstens einer der im wesentlichen zylindrischen Kontakte (2, 3) mit geschlossener Stirnfläche enthält einen koaxialen Kern (12, 13) aus ferromagnetischem Material und wenigstens ein Teil der den Kern (12, 13) umgebenden Mantelteile (6) bildet eine Schraubenlinie. Der Lichtbogenstrom erzeugt zwischen den Kontakten ein axiales Magnetfeld, dessen Feldstärke einen diffusen Lichtbogen erzeugt.

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IPC 8 full level
H01H 33/66 (2006.01); **H01H 33/664** (2006.01); **H01H 33/18** (2006.01)

CPC (source: EP US)
H01H 33/6646 (2013.01 - EP US); **H01H 33/185** (2013.01 - EP US); **H01H 33/6642** (2013.01 - EP US); **H01H 33/6645** (2013.01 - EP US)

Citation (search report)

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EP 82102093 A 19820315; AT 82102093 T 19820315; DE 3112009 A 19810326; DE 3264618 T 19820315; DK 138482 A 19820326; FI 820738 A 19820302; IN 348CA1982 A 19820327; JP 4707182 A 19820324; NO 820976 A 19820324; US 51172083 A 19830708