

Title (en)
MEDIUM VOLTAGE OR HIGH VOLTAGE SWITCH SYSTEM WITH A MAGNETIC SYSTEM APPLYING A TRANSVERSE FIELD TO A VACUUM SWITCH

Title (de)
MITTELSPANNUNGS- ODER HOCHSPANNUNGSSCHALTSYSTEM MIT EINEM MAGNETSYSTEM, DAS EIN QUERFELD AN EINEN VAKUUMSCHALTER ANLEGT

Title (fr)
SYSTÈME DE COMMUTATION MOYENNE TENSION OU HAUTE TENSION AVEC UN SYSTEME MAGNETIQUE APPLIQUANT UN CHAMP TRANSVERSAL A UN COMMUTATEUR A VIDE

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EP 4300529 A1 20240103 (EN)

Application
EP 22182517 A 20220701

Priority
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Abstract (en)
[origin: CN117334516A] The invention relates to a low, medium or high voltage switching system comprising: a vacuum interrupter; and a magnetic system; wherein the vacuum interrupter comprises a fixed contact and a movable contact; wherein in the closed configuration of the switching system, the vacuum interrupter is configured to maintain the movable contact in contact with the fixed contact; wherein in an open transition of the switching system, the vacuum interrupter is configured to move the movable contact away from the fixed contact; and wherein the magnetic system is configured to generate a magnetic field having magnetic flux lines that are directed through a gap between the movable contact and the fixed contact during the open transition; and wherein the axis of the vacuum interrupter is guided through the center of the fixed contact and through the center of the movable contact, and wherein the magnetic flux line is guided perpendicular to the axis of the vacuum interrupter.

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Citation (search report)

- [X] CN 114023595 A 20220208 - CHINA ELECTRIC POWER RES INST
- [X] DE 102019219863 A1 20210617 - SIEMENS AG [DE]
- [X] US 4021628 A 19770503 - KIMBLIN CLIVE W
- [X] CN 112420443 B 20220517
- [X] US 3071667 A 19630101 - LEE THOMAS H
- [X] CN 113327811 A 20210831 - UNIV XI AN JIAOTONG
- [X] EP 1760744 A1 20070307 - ABB RESEARCH LTD [CH]
- [X] US 4250364 A 19810210 - GORMAN JOSEPH G [US], et al
- [A] CN 111243900 A 20200605 - STATE GRID JIANGSU ELECTRIC POWER CO RES INST, et al

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