

Title (en)

Articulated conductive assembly for a contact lever.

Title (de)

Stromübertragende Gelenkanordnung für einen Kontakthebel.

Title (fr)

Ensemble conducteur articulé pour un levier de contact.

Publication

EP 0358286 A2 19900314 (DE)

Application

EP 89250026 A 19890907

Priority

US 24223388 A 19880908

Abstract (en)

[origin: JPH02117024A] PURPOSE: To reduce the cost and resistance by providing a contact means and a substantially circular contact member rotatably connected to this contact means. CONSTITUTION: A contact arm 18 having a circular contact part 20 is rotated around an axial line 22 when contacts 10, 12 are opened and closed. A contact member assembly 24 cooperates with the circular contact part 20 in order to complete the current-carrying passage from a terminal 16 to the contact arm 18. The contact member assembly 24 has two contact plates 26, 28 to be engaged with the circular contact part 20, the contact plate 26 has one or a plurality of end part 30 having a flat surface 32 so as to make contact with the circumference of the circular contact part 20, and the contact plate 28 has two end parts 34 having flat surfaces 38 so as to make contact with the circumference of the circular contact part 20. Namely, three contact positions 40 is provided in order to form a current path between the contact plates 26, 28 and the contact arm 18. Thus, a rotating contact part structure having a low electric resistance, a low manufacturing cost, and high reliability can be provided.

Abstract (de)

Eine elektrisch leitende Gelenkanordnung umfaßt einen schwenkbar gelagerten Kontakthebel (18) zum Öffnen und Schließen von Schaltkontakten (10, 12). Ein die Schwenkachse (22) des Kontakthebels (18) umgebender Gelenkbereich (20) wirkt mit einer ortsfesten Leiteranordnung (24) zusammen, die zwei Teilstücke (26, 28) einer ortsfesten Anschlußschiene (16) und hieraus geformte kontaktgebende Endteile (34, 36) aufweist. Diese übergreifen mit wenigstens drei ebenen Kontaktflächen (32, 38) zangenartig den Gelenkbereich (20) des Kontakthebels (18). Eine Erhöhung der Andruckkraft im Gelenkbereich wird durch parallele Strompfade (A, B) erreicht, die durch eine Abkröpfung wenigstens eines der Endteile (36) gegenüber dem anderen Endteil (34) der Teilstücke (26, 28) der Anschlußschiene (16) gebildet sind.

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP1244123A1; FR2822588A1; AU743224B2; EP0955658A3; EP2124238A1; FR2931583A1; US6188031B1; WO9808240A1

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