

Title (en)  
SWITCH CONTACT

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Application  
**EP 89123257 A 19891215**

Priority  
DE 3900684 A 19890112

Abstract (en)  
[origin: EP0381843A2] The invention relates to a switch contact (1), whose contact base (5) is divided by slots (10) into sections (12) and whose coil former (4) is divided by slots (8) into helix-shaped conductors (9) for generating a magnetic field. In the event of interaction with a second switch contact (2), the two contacts acting together induce an axial or a radial magnetic field in the opened contact gap, depending on the direction of the slots (8) in the two coil formers (4). In order to generate an effective magnetic field in both cases, an evenly distributed current flow is necessary in the windings (9) of the coil formers (4) with current threads running at least approximately parallel in the inclination direction of the slots (8). A special design of the contact base (5) with different resistances is proposed for the solution, so that paths of equal electrical resistance are produced even for the relatively long current lines (SL1, SL2 ...) in the edge zones of the conductors (9). <IMAGE>

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IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
• [Y] DE 3323445 A1 19850110 - SIEMENS AG [DE]  
• [YD] DE 3227482 A1 19830203 - SLAMECKA ERNST  
• [AD] FR 1424277 A 19660107 - ASS ELECT IND  
• [A] EP 0203367 A1 19861203 - SIEMENS AG [DE]

Cited by  
DE4112113A1; EP2549503A1; EP0747917A3; DE19809828C1; DE4121685A1; DE4121685C2; GB2240660A; US5099093A; GB2240660B; US6307308B1; US6417604B1; WO9826442A1; WO9826441A1; WO2006003114A3

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