

Title (en)  
Flexible electric cord.

Title (de)  
Flexible elektrische Leitung.

Title (fr)  
Cordon électrique flexible.

Publication  
**EP 0076229 A1 19830406 (DE)**

Application  
**EP 82730124 A 19820923**

Priority  
DE 3139016 A 19810928

Abstract (en)  
The flexible cable supplies power to movable equipment with rated voltages up to 1,000V., esp. hand-held tools, and has three wires twisted together and sheathed in a plastics or rubber sleeve. The two wires (1,2) that carry current have an outer layer (3) composed of electrically-conducting plastic or rubber. The third wire (the ground wire) is either a plain wire or a wire (4) covered in an electrically-conducting plastic or rubber layer (5). The outer sheaths of all three wires are electrically connected since they touch one another. A break in one of the current-carrying wires - a break causing a failure in the insulation - results in the current-carrying wire being electrically connected to the ground wire. A fuse between the ground wire and the current wires (and located in a plug) therefore burns out.

Abstract (de)  
Bei einer flexiblen elektrischen Leitung für Betriebsspannungen kleiner 1000 V steht der blanke oder mit einer Leitschicht (5) versehene Erdleiter (4) in elektrischem Kontakt mit einer auf die Adern (1, 2) aufgebrachten Leitschicht (3). Diese Art der Schirmung gewährleistet zusammen mit einem nachgeschalteten Sicherungselement den Berührungsschutz.

IPC 1-7  
**H01B 7/04**

IPC 8 full level  
**H01B 7/04** (2006.01); **H01B 9/02** (2006.01)

CPC (source: EP)  
**H01B 7/04** (2013.01); **H01B 9/028** (2013.01)

Citation (search report)  
• DE 1028644 B 19580424 - SIEMENS AG  
• US 3322889 A 19670530 - WALTER BIRD DENNIS, et al

Cited by  
CN105131443A; CN103578620A; KR100887116B1; EP3276635B1

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