

## Title (en)

Make-first-break-last ground connections

## Title (de)

Zuerst Polkontakte zuletzt Erdkontakt unterbrechender Steckverbinder

## Title (fr)

Connecteur interrompant d'abord les contacts polaires et après le contact à la terre

## Publication

**EP 0717468 A3 19980128 (EN)**

## Application

**EP 95308237 A 19951117**

## Priority

- US 35662094 A 19941215
- US 41204495 A 19950328
- US 41217795 A 19950328

## Abstract (en)

[origin: EP0717468A2] An electrical connector assembly (2) comprises mating blade and receptacle connectors (4,6), each having a plurality contacts disposed in an insulated housing (8, 72). The blade connector (4) includes power or signal blade contacts having contact blades (70) and a ground blade contact having a contact blade (42). A tab (64) projects in the mating direction from the forward edge (66) of the ground contact blade (42). Each receptacle contact (96) has contact springs (108, 114) having contact surfaces (110, 120). One receptacle contact (96) is a ground contact, and the other receptacle contacts (96) are power or signal contacts. When the connectors (4, 6) are mated, the tab (64) first engages the ground receptacle contact (96) thus making the ground circuit of the connector assembly (2). The forward edges (66, 71) of the contact blades (42, 70) then pass substantially simultaneously between the contact surfaces (110, 120) of the respective receptacle contacts (96) and the tab (64) is received in an opening (124) defined between the contact springs (108, 114) of the ground receptacle contact (96). <IMAGE>

## IPC 1-7

**H01R 13/648**

## IPC 8 full level

**H01R 13/11** (2006.01); **H01R 12/50** (2011.01); **H01R 12/72** (2011.01); **H01R 13/04** (2006.01); **H01R 13/652** (2006.01); **H01R 12/58** (2011.01); **H01R 13/115** (2006.01); **H01R 13/41** (2006.01)

## CPC (source: EP KR)

**H01R 12/724** (2013.01 - EP); **H01R 13/648** (2013.01 - KR); **H01R 13/652** (2013.01 - EP); **H01R 13/6585** (2013.01 - EP); **H01R 12/585** (2013.01 - EP); **H01R 13/113** (2013.01 - EP); **H01R 13/41** (2013.01 - EP)

## Citation (search report)

- [AD] FR 1374648 A 19641009 - PIRELLI
- [A] US 5104329 A 19920414 - BROWN JEFFREY J [US], et al
- [AD] US 5116230 A 19920526 - DECHELETTE HELEN [FR], et al
- [A] US 5169324 A 19921208 - LEMKE TIMOTHY A [US], et al

## Cited by

EP1248325A3; CN102025050A; DE19726856C1; EP2355254A1; EP2508902A1; CN111490420A; US6709298B2; US6890214B2; WO2004019455A1

## Designated contracting state (EPC)

DE FR GB IT NL SE

## DOCDB simple family (publication)

**EP 0717468 A2 19960619**; **EP 0717468 A3 19980128**; **EP 0717468 B1 20020123**; DE 69525138 D1 20020314; DE 69525138 T2 20020822; JP 3647951 B2 20050518; JP H08255658 A 19961001; KR 100406182 B1 20040318; KR 960027070 A 19960722

## DOCDB simple family (application)

**EP 95308237 A 19951117**; DE 69525138 T 19951117; JP 32534495 A 19951214; KR 19950049292 A 19951213