

Title (en)

Breakaway electrical connector.

Title (de)

Abschaltender elektrischer Verbinder.

Title (fr)

Connecteur électrique à détachement rapide.

Publication

EP 0334610 A1 19890927 (EN)

Application

EP 89302801 A 19890321

Priority

GB 8807007 A 19880324

Abstract (en)

An electrical breakaway connector for such uses as with aircraft pilot's helmets includes a mounting fixture (140) to mount the connector to the base of the aircraft. The electrical connector includes data (160) and high voltage contacts within the dielectric housing (30,60) of the electrical connector, surrounded by a rigid metallic shell (4) which forms an outer housing. The aircraft mounted connector includes an insert (90) mounted within the dielectric housing (30,60) and is moveable radially therein. The insert (90) includes an aperture, extending from its front to its rear end, which accepts an electrical terminal (222,224). It is profiled such that its front end extends beyond the front face of the housing (30). The front end of the insert (90) also includes O-rings (114) which are seated in grooves and, which, when mated with the connector (300) which extends from the pilot's helmet, seal the voids surrounding the high voltage contacts (224,310) precluding sparking of the high voltage when the connection system is subjected to a vacuum caused by extremely high altitudes.

IPC 1-7

H01R 13/629

IPC 8 full level

H01R 13/629 (2006.01)

CPC (source: EP)

H01R 13/629 (2013.01)

Citation (search report)

- [AD] US 4684192 A 19870804 - LONG WILLIAM B [US], et al
- [A] US 3599167 A 19710810 - ADRIAN DAVID T, et al

Cited by

USRE39093E; GB2382733A; GB2382733B; US6303857B1; US6872883B2; US7097490B2; US9935410B2; US9559410B2

Designated contracting state (EPC)

BE DE FR GB

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