

Title (en)  
AMORPHOUS TRANSITION METAL ALLOY, THIN GOLD COATED, ELECTRICAL CONTACT

Publication  
**EP 0160761 B1 19890208 (EN)**

Application  
**EP 84303633 A 19840530**

Priority  
US 60913784 A 19840511

Abstract (en)  
[origin: EP0160761A1] An electrical contact, and a method of forming an electrical contact, result in a structure that may utilize far less gold than conventional electrical contacts while having the same, or superior, desirable properties. The electrical contact includes an electrically conductive substrate with an amorphous transition metal alloy electrolytically deposited on the substrate. The amorphous transition metal alloy is a nickel phosphorus, or nickel cobalt phosphorus alloy, and has an uncovered coating of gold thereover. The gold coating is between about 1-30 microinches thick, preferably 5-15 microinches of hard gold.

IPC 1-7  
**C25D 3/56**; **C25D 5/10**; **C25D 7/00**; **H01H 1/02**

IPC 8 full level  
**H01H 11/04** (2006.01); **C25D 3/56** (2006.01); **C25D 5/10** (2006.01); **C25D 7/00** (2006.01); **H01H 1/02** (2006.01); **H01H 1/021** (2006.01); **H01H 1/04** (2006.01)

CPC (source: EP US)  
**C25D 3/562** (2013.01 - EP); **C25D 5/10** (2013.01 - EP US); **C25D 5/619** (2020.08 - EP US); **H01H 1/021** (2013.01 - EP)

Cited by  
US5408574A; US5637925A; EP0384579A1; EP1086807A3; EP2753731A4; DE3838971A1; GB2212516A; US5468936A; US5066550A; US2014234663A1; US9765438B2; WO2017066344A1; US8857468B2; US7615255B2; EP0410472A2; WO2017066342A1; WO03050920A1; WO2007039302A1; EP0410472B1

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**EP 84303633 A 19840530**; AT 84303633 T 19840530; DE 3476684 T 19840530; ES 533300 A 19840611; JP 11217484 A 19840531