

Title (en)  
Insertion shell for printed circuit board

Title (de)  
Steckhülse für Leiterplatten

Title (fr)  
Enveloppe de maintien pour circuit imprimé

Publication  
**EP 0884801 A3 19991013 (DE)**

Application  
**EP 98110442 A 19980608**

Priority  
DE 19724581 A 19970611

Abstract (en)  
[origin: EP0884801A2] the plug sleeve has a housing (1) with a plug-in opening (2) for inserting a plug or similar and a metal clamp element (4) for clamping the inserted plug element. The metal clamp element is mounted in the housing and has at least one protrusion (5). The protrusion protrudes out of the housing and can be pressed into a through contact hole in the circuit board.

IPC 1-7  
**H01R 9/09**

IPC 8 full level  
**C12P 21/02** (2006.01); **H01R 12/04** (2006.01); **H01R 12/55** (2011.01); **H01R 12/58** (2011.01); **H01R 13/115** (2006.01); **H05K 3/32** (2006.01)

CPC (source: EP)  
**H01R 12/58** (2013.01)

Citation (search report)  
• [XY] US 5409399 A 19950425 - GEOGHEGAN FRANK L [US], et al  
• [Y] DE 9310600 U1 19930923 - APFEL INC [TW]  
• [A] US 4418475 A 19831206 - AMMON J PRESTON [US], et al  
• [A] US 5174764 A 19921229 - KANDYBOWSKI STEVEN J [US], et al  
• [A] EP 0449393 A1 19911002 - AMP INC [US]

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Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0884801 A2 19981216; EP 0884801 A3 19991013; EP 0884801 B1 20030326**; AT E235750 T1 20030415; DE 19724581 A1 19981217; DE 59807607 D1 20030430; ES 2195228 T3 20031201; PT 884801 E 20030829

DOCDB simple family (application)  
**EP 98110442 A 19980608**; AT 98110442 T 19980608; DE 19724581 A 19970611; DE 59807607 T 19980608; ES 98110442 T 19980608; PT 98110442 T 19980608