

Title (en)  
VAPOR PHASE CONNECTION TECHNIQUES

Title (de)  
VERBINDUNGSTECHNIK IN DER GASPHASE

Title (fr)  
TECHNIQUES DE CONNEXION EN PHASE VAPEUR

Publication  
**EP 1206325 A4 20060802 (EN)**

Application  
**EP 00954052 A 20000811**

Priority  
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Abstract (en)  
[origin: WO0111662A2] Electrical connections are made between a pair of elements (32, 38) disposed on opposite side of a hole (28) extending through a dielectric layer (20) by evaporating a conductive material (40) such as a metal having high vapor pressure within the hole while maintaining the hole in a substantially sealed condition. The process may be performed simultaneously to form numerous connections within a microelectronic unit as, for example, within a multilayer circuit panel.

IPC 8 full level  
**B05D 5/12** (2006.01); **H01L 21/48** (2006.01); **H01L 21/60** (2006.01); **H01L 21/768** (2006.01); **H01L 23/12** (2006.01); **H01L 25/065** (2006.01); **H01L 25/07** (2006.01); **H01L 25/18** (2006.01); **H05K 3/40** (2006.01); **H05K 3/46** (2006.01)

CPC (source: EP KR)  
**H01L 21/486** (2013.01 - EP); **H05K 3/40** (2013.01 - KR); **H05K 3/4076** (2013.01 - EP); **H01L 2924/0002** (2013.01 - EP); **H05K 2203/083** (2013.01 - EP); **H05K 2203/085** (2013.01 - EP); **H05K 2203/1105** (2013.01 - EP)

Citation (search report)  
• [A] US 5614114 A 19970325 - OWEN MARK D [US]  
• [DA] US 3562009 A 19710209 - CRANSTON BENJAMIN HOWELL, et al  
• [A] US 5031308 A 19910716 - YAMASHITA KAZUO [JP], et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05 30 April 1998 (1998-04-30)  
• See references of WO 0111662A2

Designated contracting state (EPC)  
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**WO 0111662 A2 20010215**; **WO 0111662 A3 20010517**; AU 6640000 A 20010305; EP 1206325 A2 20020522; EP 1206325 A4 20060802; JP 2003506891 A 20030218; KR 100764582 B1 20071009; KR 20020021405 A 20020320

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