

Title (en)  
ELECTROLESS NICKEL PLATING OF ALUMINUM

Publication  
**EP 0153369 B1 19931013 (EN)**

Application  
**EP 84903142 A 19840808**

Priority  
• HK 98105637 A 19980618  
• US 52535883 A 19830822

Abstract (en)  
[origin: WO8501070A1] A process for improving the electroless nickel plating of aluminum which has been pretreated with a barrier coating such as zinc by employing multiple plating baths under controlled operating conditions.

IPC 1-7  
**C23C 18/54**

IPC 8 full level  
**C23C 18/34** (2006.01); **C23C 18/16** (2006.01); **C23C 18/40** (2006.01); **C23C 18/50** (2006.01)

CPC (source: EP)  
**C23C 18/1651** (2013.01)

Citation (examination)  
• METAL FINISHING ABSTRACTS, vol. 22, no. 2, March/April 1980, Hampton Hill; p. 105, abstract A; & JP-A-54 84835 (Tokyo Shibaura Electric K.K.) 19-12-1977  
• METALS HANDBOOK, 9th ed., 1982, vol. 5; pp. 220-221#  
• HANDBUCH DER GALVANOTECHNIK, vol. II, 1966, Carl Hansen Verlag; pp. 740-741#

Designated contracting state (EPC)  
BE CH DE FR GB LI NL SE

DOCDB simple family (publication)  
**WO 8501070 A1 19850314**; AU 3217884 A 19850329; AU 558946 B2 19870212; BR 8407027 A 19850730; CA 1220101 A 19870407; DE 3486228 D1 19931118; DE 3486228 T2 19940414; EP 0153369 A1 19850904; EP 0153369 A4 19860213; EP 0153369 B1 19931013; HK 1006860 A1 19990319; JP H0319302 B2 19910314; JP S60502057 A 19851128; MX 167978 B 19930426

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**US 8401253 W 19840808**; AU 3217884 A 19840808; BR 8407027 A 19840808; CA 461286 A 19840817; DE 3486228 T 19840808; EP 84903142 A 19840808; HK 98105637 A 19980618; JP 50321284 A 19840808; MX 20244884 A 19840821