

Title (en)  
THREAD TREATING NOZZLES

Publication  
**EP 0502450 A3 19921125 (EN)**

Application  
**EP 92103517 A 19870603**

Priority  
• EP 87108005 A 19870603  
• GB 8614727 A 19860617

Abstract (en)  
[origin: EP0249804A2] An openable and closable thread treating nozzle is partly defined by a plate which is elastic under closure forces applied in use to create sealing zones adjacent and on each side of a thread passage through the nozzle.

IPC 1-7  
**D02G 1/16**

IPC 8 full level  
**D02J 1/00** (2006.01); **D02G 1/16** (2006.01); **D02J 13/00** (2006.01)

CPC (source: EP)  
**D02G 1/161** (2013.01)

Citation (search report)  
• [YD] DE 2049740 A1 19710415  
• [Y] EP 0110359 A2 19840613 - RIETER AG MASCHF [CH]  
• [A] US 3237269 A 19660301 - SPENCER HAWKINS CHARLES  
• [A] US 3324526 A 19670613 - THOMAS BURNS JOHN, et al  
• [A] DE 8501265 U1 19860528  
• [XP] EP 0184625 A2 19860618 - RIETER AG MASCHF [CH]

Designated contracting state (EPC)  
CH DE GB IT LI

DOCDB simple family (publication)  
**EP 0249804 A2 19871223; EP 0249804 A3 19890906; EP 0249804 B1 19931027**; DE 3751510 D1 19951012; DE 3751510 T2 19960321; DE 3787928 D1 19931202; DE 3787928 T2 19940428; EP 0502450 A2 19920909; EP 0502450 A3 19921125; EP 0502450 B1 19950906; GB 2193232 A 19880203; GB 8614727 D0 19860723; JP 2693951 B2 19971224; JP S62299538 A 19871226

DOCDB simple family (application)  
**EP 87108005 A 19870603**; DE 3751510 T 19870603; DE 3787928 T 19870603; EP 92103517 A 19870603; GB 8614727 A 19860617; JP 12850687 A 19870527