

Title (en)  
DEVICE FOR ASSEMBLING THE PARTS OF A THERMALLY INSULATED COMPOSITE PROFILE

Publication  
**EP 0126913 A3 19860212 (DE)**

Application  
**EP 84103861 A 19840407**

Priority  
DE 3319262 A 19830527

Abstract (en)  
[origin: US4646408A] A device for fastening together the parts of a heat-insulated composite section consisting of two metal sections and of at least one insulating rod has knurling rollers that shape exterior groove webs, forces them against the insulating rod, provides them with a knurled strip. The knurling roller has conical, toothed, circumferential surfaces. The bottom land between each pair of teeth parallels the conical circumferential surface. The knurling rollers are mounted in a tensioning mechanism that consists of two annular disks in such a way that it can be displaced along its axis. It can be displaced 0.5 to 1 mm to each side out of an intermediate position. The axial flotation make it possible to compensate for errors in alignment between the knurling roller and the composite section that occur while the groove webs are being shaped as a result of undesirable superimposition of the tolerances of the separate parts. The knurling rollers are mounted in such a way that they cannot rotate on powered shafts. They advance the composite section, which is also guided by horizontal and vertical guide rollers, through the device.

IPC 1-7  
**E06B 3/26**

IPC 8 full level  
**B25B 27/00** (2006.01); **B21D 39/00** (2006.01); **B21D 47/04** (2006.01); **B23K 20/00** (2006.01); **E06B 3/26** (2006.01); **E06B 3/273** (2006.01)

CPC (source: EP US)  
**E06B 3/273** (2013.01 - EP US); **Y10T 29/53709** (2015.01 - EP US)

Citation (search report)  
• [Y] DE 3025706 A1 19820128 - KELLER EBERHARD  
• [Y] EP 0006555 A1 19800109 - NAHR HELMAR  
• [A] CH 303353 A 19541130 - NYSTROM KARL G [SE]

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Designated contracting state (EPC)  
AT BE FR GB IT LU NL SE

DOCDB simple family (publication)  
**US 4646408 A 19870303**; AT E33167 T1 19880415; CA 1245426 A 19881129; DE 3319262 C1 19840524; DK 158051 B 19900319; DK 158051 C 19900820; DK 257384 A 19841128; DK 257384 D0 19840525; EP 0126913 A2 19841205; EP 0126913 A3 19860212; EP 0126913 B1 19880323; FI 75648 B 19880331; FI 75648 C 19880711; FI 842018 A0 19840518; FI 842018 A 19841128; JP H0315228 Y2 19910403; JP S6011131 U 19850125; NO 161015 B 19890313; NO 161015 C 19890621; NO 842086 L 19841128

DOCDB simple family (application)  
**US 61298184 A 19840523**; AT 84103861 T 19840407; CA 455118 A 19840525; DE 3319262 A 19830527; DK 257384 A 19840525; EP 84103861 A 19840407; FI 842018 A 19840518; JP 7721384 U 19840528; NO 842086 A 19840525