

Title (en)  
APPARATUS FOR ENLARGING TUBE ENDS

Publication  
**EP 0284773 A3 19900228 (DE)**

Application  
**EP 88102680 A 19880224**

Priority  
DE 8702934 U 19870226

Abstract (en)  
[origin: EP0284773A2] The apparatus for enlarging tube ends (9) has a die (1) which surrounds the tube end and has a recess (10) in accordance with the form of enlargement to be applied. Located in the interior of the die (1) is an expanding sleeve (4, 14) which can be expanded by an expanding mandrel (3) which can be displaced by a piston (15). When the expanding mandrel (3) is actuated, the tube (8) can be clamped in place between the die (1) and the expanding sleeve (4, 14). A punch (5) can be displaced on the expanding sleeve (4, 14). The tube end (9) is expanded when the punch (5) is displaced in the direction of the recess (10). <IMAGE>

IPC 1-7  
**B21D 41/02**

IPC 8 full level  
**B21D 39/20** (2006.01); **B21D 41/02** (2006.01)

CPC (source: EP)  
**B21D 39/20** (2013.01); **B21D 41/02** (2013.01)

Citation (search report)

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