

Title (en)  
CLAMPING UNIT

Publication  
**EP 0354880 A3 19910918 (DE)**

Application  
**EP 89810600 A 19890809**

Priority  
CH 303588 A 19880811

Abstract (en)  
[origin: JPH02100878A] PURPOSE: To exactly fasten an object to be fastened by providing a wedge- shaped surface which is complementarily opposed to a wedge-shaped control surface of a nose-shaped supporting part on a movable fastening jaw and oppositely arranging a fastening surface of the movable fastening jaw in parallel to a fastening surface of a fixed fastening jaw. CONSTITUTION: When a fastening screw 6 is fastened, a movable fastening jaw 5 lifted from a table-shaped part 8 by a first spring element 10 is brought into contact with an object 7 to be fastened or a wedge-shaped surface 4.2 of a nose-shaped supporting part 4 against pressure of a second spring element 11 at first. Further, when a fastening screw 6 is further revolved, the jaw 5 completely leans against both of the object surface 7 and the wedge-shaped surface 4.2. At this time, a fastening surface 5.1 of the movable fastening jaw 5 moves in parallel to a fastening surface 2 of a fixed fastening jaw 3 toward the table-shaped part 8 and fastens the object 7 by the cooperation of the wedge- shaped surface 5.2 of the jaw 5 and the wedge-shaped surface 4.2 of the supporting part 4.

IPC 1-7  
**B25B 5/10**; **B25B 5/08**

IPC 8 full level  
**B25B 1/08** (2006.01); **B25B 1/24** (2006.01); **B25B 5/08** (2006.01); **B25B 5/10** (2006.01)

CPC (source: EP US)  
**B25B 1/2473** (2013.01 - EP US); **B25B 5/08** (2013.01 - EP US); **B25B 5/10** (2013.01 - EP US)

Citation (search report)  
• [Y] US 2329269 A 19430914 - JACOBI EDWARD N  
• [A] US 1866034 A 19320705 - HERMAN HANSEN  
• [A] US 1457307 A 19230605 - KERNS ORLANDO C  
• [A] US 3286597 A 19661122 - JEROME SCHWARTZ  
• [A] GB 627395 A 19490808 - ERNEST JOHN HALLIDAY, et al  
• [A] US 1978628 A 19341030 - HERMAN HANSEN  
• [Y] POPULAR MECHANICS. vol. 112, no. 3, September 1959, NEW YORK US Seite 176 "Strap Clamp for Special Machining"

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

DOCDB simple family (publication)  
**EP 0354880 A2 19900214**; **EP 0354880 A3 19910918**; CH 686293 A5 19960229; JP H02100878 A 19900412; US 4958818 A 19900925

DOCDB simple family (application)  
**EP 89810600 A 19890809**; CH 303588 A 19880811; JP 20776189 A 19890810; US 38753589 A 19890731