

Title (en)  
Screw drive mechanism and vice.

Title (de)  
Schraubmechanismus und Schraubstock.

Title (fr)  
Mécanisme de vissage et étau.

Publication  
**EP 0354644 B1 19940727 (EN)**

Application  
**EP 89305364 A 19890526**

Priority  
• CN 88104905 A 19880808  
• CN 88106661 A 19880914

Abstract (en)  
[origin: EP0354644A2] A screw drive mechanism, particularly suitable for a fast-clamping vice. A screw (20) for moving a movable body (22) relative to a stationary body (21) is engageable in threaded portions of holes (38) in arms (40) of a screw nut seat (19). A cam (17) is provided eccentrically of the screw (20) between the arms (40), and is rotatable to shift the axis of the screw (20) laterally into or out of engagement with the threads by a one-way pawl device (9, 58) which is keyable to rotate with the screw (20).

IPC 1-7  
**B25B 1/12**; **B23Q 5/40**

IPC 8 full level  
**B23Q 5/40** (2006.01); **B25B 1/12** (2006.01); **F16H 25/20** (2006.01)

CPC (source: EP)  
**B25B 1/125** (2013.01)

Cited by  
EP0508569A1; US5282392A; FR2704292A1; CN114738367A

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**DE 8907067 U1 19890907**; AU 3710189 A 19900208; AU 614390 B2 19910829; BR 8903962 A 19900320; DE 68917047 D1 19940901; DE 68917047 T2 19950126; EP 0354644 A2 19900214; EP 0354644 A3 19910320; EP 0354644 B1 19940727; GB 2221634 A 19900214; GB 8917443 D0 19890913; JP H0288179 A 19900328; JP H0543464 B2 19930701; MX 172487 B 19931217; MY 104146 A 19940228; NZ 229177 A 19910625; RU 2052691 C1 19960120; RU 2052692 C1 19960120

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**DE 8907067 U 19890609**; AU 3710189 A 19890627; BR 8903962 A 19890807; DE 68917047 T 19890526; EP 89305364 A 19890526; GB 8917443 A 19890731; JP 14426989 A 19890608; MX 1709189 A 19890807; MY P119891072 A 19890808; NZ 22917789 A 19890517; SU 4614814 A 19890807; SU 4614814 D 19890807