

Title (en)  
Machine vice

Title (de)  
Maschinenschraubstock

Title (fr)  
Etau pour machine-outil

Publication  
**EP 0903201 A3 20011107 (DE)**

Application  
**EP 98117351 A 19980914**

Priority  
DE 19741587 A 19970920

Abstract (en)  
[origin: US6024352A] A machine vise has lateral cuttings outlets (10). Two wipers are provided on the slide (6). The first wiper (7) cooperates with the surface of a cylindrical region (2) of the spindle (1). The second wiper (8) clears the cuttings from the thread (4) of the spindle (1).

IPC 1-7  
**B25B 1/10**; **B23Q 11/00**; **B25B 1/24**

IPC 8 full level  
**B23Q 11/00** (2006.01); **B25B 1/10** (2006.01); **B25B 1/24** (2006.01)

CPC (source: EP US)  
**B25B 1/103** (2013.01 - EP US); **B25B 1/24** (2013.01 - EP US); **B25B 1/2489** (2013.01 - EP US)

Citation (search report)

- [X] US 5163662 A 19921117 - BERNSTEIN LEON M [US]
- [A] EP 0525501 A1 19930203 - SAURER ALLMA GMBH [DE]
- [A] EP 0324057 A2 19890719 - ROEHM GUENTER H [DE]
- [DA] DE 3438900 A1 19860424 - SAURER ALLMA GMBH [DE]

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EP1688219A1; WO2006133755A1; DE102013200467A1; WO2014111304A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 6024352 A 20000215**; AT E261795 T1 20040415; DE 19741587 C1 19990318; DE 59810981 D1 20040422; EP 0903201 A2 19990324; EP 0903201 A3 20011107; EP 0903201 B1 20040317; ES 2216221 T3 20041016; JP H11156734 A 19990615

DOCDB simple family (application)  
**US 15068298 A 19980910**; AT 98117351 T 19980914; DE 19741587 A 19970920; DE 59810981 T 19980914; EP 98117351 A 19980914; ES 98117351 T 19980914; JP 26301398 A 19980917