

Title (en)  
PROCESSING MACHINE

Title (de)  
BEARBEITUNGSMASCHINE

Title (fr)  
MACHINE A USINER

Publication  
**EP 0873207 A1 19981028 (DE)**

Application  
**EP 97944876 A 19970912**

Priority  
• DE 19640415 A 19960930  
• DE 19641402 A 19961008  
• EP 9704997 W 19970912

Abstract (en)  
[origin: US5964119A] In order to improve a processing machine for workpieces consisting of flat material, in particular, sheet-metal parts, comprising a work station which is designed as a bending station, in which the workpiece aligned parallel to a bending plane can be clamped by means of a lower beam and an upper beam for carrying out a bending operation and bent along a bending edge by means of a bending beam, as well as a manipulator device with a gripping means for holding the workpiece and a positioning device for the gripping means, with which this can be moved in the bending plane in a first direction transversely to the bending edge and rotated about an axis at right angles to the bending plane, such that other machining operations are possible with it in addition to one type of bending operation in order to finish a sheet-metal part at least with respect to its shaping it is suggested that the gripping means be movable with the positioning device in a second direction parallel to the bending plane and in a vertical direction at right angles to the bending plane.

IPC 1-7  
**B21D 43/00**; **B21D 43/10**; **B21D 5/04**

IPC 8 full level  
**B21D 43/00** (2006.01); **B21D 5/04** (2006.01); **B21D 43/10** (2006.01)

CPC (source: EP US)  
**B21D 5/042** (2013.01 - EP US); **B21D 43/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 9814288A1

Cited by  
CN105081125A

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

DOCDB simple family (publication)  
**US 5964119 A 19991012**; AT E214984 T1 20020415; DK 0873207 T3 20020729; EP 0873207 A1 19981028; EP 0873207 B1 20020327; ES 2175471 T3 20021116; JP 2000515816 A 20001128; PT 873207 E 20020930; WO 9814288 A1 19980409

DOCDB simple family (application)  
**US 8637598 A 19980528**; AT 97944876 T 19970912; DK 97944876 T 19970912; EP 9704997 W 19970912; EP 97944876 A 19970912; ES 97944876 T 19970912; JP 51616798 A 19970912; PT 97944876 T 19970912