

Title (en)  
Rotating bending tool with permanent lubrication.

Title (de)  
Rotationsbiegewerkzeug mit Dauerschmierung.

Title (fr)  
Outil de cintrage rotatif à graissage permanent.

Publication  
**EP 0555752 B1 19950705 (DE)**

Application  
**EP 93101643 A 19930203**

Priority  
DE 4203680 A 19920208

Abstract (en)  
[origin: US5341669A] A rotary bending tool, consisting of a rotary bending head, a saddle block with bearing surfaces and retaining key for holding the rotary bending head, a restoring member for the rotary bending head and a bottom die, the bearing assembly of the rotary bending head being equipped with a continuous lubricating device. The continuous lubricating device consists preferably of lubricant chambers, which are fed via a lubricant-delivery duct. Preferably the restoring member for the rotary bending head is integrated in the lubricant-delivery duct.

IPC 1-7  
**B21D 5/04**; **B21D 19/08**

IPC 8 full level  
**B21D 5/01** (2006.01); **B21D 5/02** (2006.01); **B21D 5/04** (2006.01); **B21D 19/08** (2006.01); **B21D 37/18** (2006.01)

CPC (source: EP KR US)  
**B21D 5/0209** (2013.01 - KR US); **B21D 5/042** (2013.01 - EP KR US); **B21D 37/18** (2013.01 - EP)

Cited by  
DE102009010378B3; CN111842558A; US9744579B2

Designated contracting state (EPC)  
BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**DE 4203680 C1 19930506**; DE 59300317 D1 19950810; EP 0555752 A1 19930818; EP 0555752 B1 19950705; ES 2078073 T3 19951201; JP H06292926 A 19941021; KR 930017641 A 19930920; US 5341669 A 19940830

DOCDB simple family (application)  
**DE 4203680 A 19920208**; DE 59300317 T 19930203; EP 93101643 A 19930203; ES 93101643 T 19930203; JP 1232493 A 19930128; KR 930001630 A 19930206; US 1553893 A 19930208