

Title (en)  
METHOD AND DEVICE FOR FORGING CRANKSHAFTS ONTO PRESSES

Publication  
**EP 0144981 A3 19870819 (DE)**

Application  
**EP 84114859 A 19841206**

Priority  
PL 24511583 A 19831213

Abstract (en)  
[origin: ES8600707A1] An apparatus for forging crankshafts comprises a base which consists of beams 4 and cross-members 12 and 25. The head 3 of the device is designed for reciprocal movement in relation to the base. Between head 3 and parts 4 and 25 of the base there is a pair of movable, mutually coupled die holders 5 and 8, from which the top die holder 5 is led perpendicularly or at an oblique angle in relation to the head movement and the bottom die holder 8 is connected with the base by means of articulated connectors 6 and 7. Clamping die inserts 10 and 11 for gripping the forged material are fastened in die holders 5 and 8. The device is also equipped with a second pair of die holders 13, 12, 12a, 4d, which remain stationary and are fixed to the base during the working stroke of the press by means of a clamping mechanism 14 and 15. Die inserts 22 and 23 for forming crank webs and angle die inserts 17, 18 and 20 for setting crank webs at proper twist angles are mounted into the said stationary pair of die holders.

IPC 1-7  
**B21K 1/08**

IPC 8 full level  
**B21J 9/02** (2006.01); **B21J 13/02** (2006.01); **B21K 1/08** (2006.01)

CPC (source: EP US)  
**B21K 1/08** (2013.01 - EP US); **Y10T 29/17** (2015.01 - EP US)

Citation (search report)

- [X] GB 1207236 A 19700930 - LOIRE ATEL FORGES [FR]
- [X] FR 1534873 A 19680802 - LOIRE ATEL FORGES
- [A] US 2999298 A 19610912 - DE FRAMOND PAUL
- [A] SU 583866 A1 19771215 - CH POLT I [SU]
- [AD] EP 0003139 A1 19790725 - INST OBROBKI PLASTYCZNEJ [PL]
- [AD] DE 1301297 B 19690821 - TS LAB OBRO BKI PLASTYCZNEJ
- [A] DE 1936012 C2 19840614
- [A] US 2535295 A 19501226 - JEAN LAFONT
- [A] US 2534613 A 19501219 - FRANCOIS MELEY

Cited by  
CN102548684A; CN101844198A; CN102886478A

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CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0144981 A2 19850619; EP 0144981 A3 19870819; EP 0144981 B1 19910619;** CA 1228253 A 19871020; CS 273158 B2 19910312; DE 3484732 D1 19910725; ES 538570 A0 19851101; ES 8600707 A1 19851101; JP S60145233 A 19850731; PL 141712 B1 19870831; PL 245115 A1 19850618; SU 1440333 A3 19881123; US 4646551 A 19870303

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**EP 84114859 A 19841206;** CA 469512 A 19841206; CS 969784 A 19841212; DE 3484732 T 19841206; ES 538570 A 19841213; JP 26266484 A 19841212; PL 24511583 A 19831213; SU 3820676 A 19841207; US 67781284 A 19841204