

Title (en)

A die set for forging knife-edge of tapping screw.

Title (de)

Matrizenset zum schmieden der Schneidkante einer gewinneschneidenden Schraube.

Title (fr)

Ensemble de matricage pour forgeage de la lame d'une vis autoaraudeuse.

Publication

**EP 0414973 A1 19910306 (EN)**

Application

**EP 89308898 A 19890901**

Priority

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Abstract (en)

This invention relates to a die set (1,2) for forging the knife-edge of a tapping screw which utilizes a pair of reciprocating concentric positioners (15) to fix a tapping screw in place prior to punch pressing so as to forge a knife-edge of the tapping screw and cooperates with a horizontal punch press to provide mass production for forging the knife-edge of the tapping screw.

IPC 1-7

**B21K 1/56**

IPC 8 full level

**B21G 3/16** (2006.01); **B21K 1/56** (2006.01)

CPC (source: EP)

**B21G 3/16** (2013.01); **B21K 1/56** (2013.01)

Citation (search report)

- [A] US 4100638 A 19780718 - FISCHER DONALD A
- [A] DE 2820259 A1 19781116 - DOHI KAMEO
- [A] EP 0136912 A1 19850410 - DEUTSHER PTY LTD [US]
- [A] EP 0209305 A2 19870121 - SHINJO SEISAKUSHO YK [JP]

Cited by

CN109175184A; US6110047A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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