

Title (en)

Method for forming a copper blank with cold forming and forming tool with associated cutting tool for carrying out the method

Title (de)

Verfahren zur Umformung eines Kupfer-Rohlings durch Kaltfließpressen und Presswerkzeug mit zugeordnetem Schneidwerkzeug zur Durchführung des Verfahrens

Title (fr)

Procédé de formage d'une ébauche en cuivre par formage à froid et outil de formage doté d'un outil de coupe attribué pour l'exécution du procédé

Publication

EP 2161085 A3 20171004 (DE)

Application

EP 09180659 A 20000420

Priority

- EP 00108684 A 20000420
- DE 19920040 A 19990423

Abstract (en)

[origin: EP1048375A2] The cold forming method has a Cu workpiece with a volume corresponding to that of the required end electrode separated from wire with a diameter of 4.5 mm and clamped between a stationary forming matrix (10,11) and a relatively displaced forming stamp (30), moved in the direction of the matrix via a 2-stage forming process. An Independent claim for a cold forming tool is also included.

IPC 8 full level

B21K 1/14 (2006.01); **B21C 23/20** (2006.01); **B21J 5/02** (2006.01)

CPC (source: EP)

B21C 23/20 (2013.01); **B21J 5/02** (2013.01); **B21K 1/14** (2013.01); **B21K 23/04** (2013.01); **H01T 21/00** (2013.01)

Citation (search report)

- [A] US 2593126 A 19520415 - ESTOK PAUL A
- [AD] DE 3805628 A1 19880922 - NAT MACHINERY CO [US]
- [AD] DE 3100924 A1 19820805 - SIEMENS AG [DE]

Cited by

CN104646586A

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)

EP 1048375 A2 20001102; EP 1048375 A3 20081022; EP 1048375 B1 20161228; DE 19920040 A1 20001102; DE 19964418 B4 20060608; EP 2161085 A2 20100310; EP 2161085 A3 20171004

DOCDB simple family (application)

EP 00108684 A 20000420; DE 19920040 A 19990423; DE 19964418 A 19990423; EP 09180659 A 20000420