

Title (en)
HOLDING DEVICE FOR PARTIAL HEAT TREATMENT OF TOOLS IN FURNACES

Publication
EP 0302295 B1 19910327 (DE)

Application
EP 88111579 A 19880719

Priority
DE 3726134 A 19870806

Abstract (en)
[origin: EP0302295A1] In the case of tools which have a working zone and a clamping zone, the clamping zone should not be hardened during the heat treatment. This is achieved by means of a holding device which consists of a metal of good thermal conductivity, contains blind holes for insertion of the tools and is provided with all-round thermal insulation. <IMAGE>

IPC 1-7
C21D 9/00; **C21D 9/22**

IPC 8 full level
C21D 9/00 (2006.01); **C21D 9/22** (2006.01)

CPC (source: EP US)
C21D 9/0025 (2013.01 - EP US); **C21D 9/22** (2013.01 - EP US)

Cited by
CN107254570A; WO9012266A1; WO9714525A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0302295 A1 19890208; **EP 0302295 B1 19910327**; AT E62023 T1 19910415; BR 8803863 A 19890221; DE 3726134 A1 19890223; DE 3726134 C2 19890518; DE 3862179 D1 19910502; GR 3001677 T3 19921123; IN 170012 B 19920125; JP S6455340 A 19890302; SU 1620052 A3 19910107; US 4911415 A 19900327; YU 144788 A 19900228; ZA 885031 B 19890329

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EP 88111579 A 19880719; AT 88111579 T 19880719; BR 8803863 A 19880804; DE 3726134 A 19870806; DE 3862179 T 19880719; GR 910400286 T 19910328; IN 571CA1988 A 19880707; JP 19219688 A 19880802; SU 4356260 A 19880805; US 22897288 A 19880805; YU 144788 A 19880727; ZA 885031 A 19880712