

Title (en)
VACUUM FURNACE FOR THE HEAT TREATMENT OF METALLIC WORK-PIECES

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EP 0313889 B1 19910731 (DE)

Application
EP 88116478 A 19881005

Priority
DE 3736502 A 19871028

Abstract (en)
[origin: US4869470A] A vacuum furnace for heat treatment of metallic workpieces wherein the heat conductors are formed as conduits fitted with bore holes and connected by electrical insulators to coolant gas distributor.

IPC 1-7
C21D 1/613; C21D 1/767

IPC 8 full level
C21D 1/18 (2006.01); **B23K 1/008** (2006.01); **C21D 1/613** (2006.01); **C21D 1/767** (2006.01); **C21D 1/773** (2006.01); **F27B 5/05** (2006.01); **F27B 5/16** (2006.01); **F27D 7/04** (2006.01); **F27D 9/00** (2006.01); **F27D 11/02** (2006.01); **F27B 5/06** (2006.01); **F27B 5/14** (2006.01)

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US 4869470 A 19890926; AT E65800 T1 19910815; AU 2440588 A 19890504; AU 601084 B2 19900830; BG 49829 A3 19920214; BR 8805558 A 19890711; CA 1313043 C 19930126; CN 1015474 B 19920212; CN 1033840 A 19890712; CS 276378 B6 19920513; CS 711288 A3 19920513; DD 283455 A5 19901010; DE 3736502 C1 19880609; DE 3864008 D1 19910905; DK 164747 B 19920810; DK 164747 C 19921228; DK 596488 A 19890429; DK 596488 D0 19881027; EP 0313889 A1 19890503; EP 0313889 B1 19910731; ES 2023994 B3 19920216; FI 85386 B 19911231; FI 85386 C 19920410; FI 884514 A0 19880930; FI 884514 A 19890429; HU 199903 B 19900328; HU T49652 A 19891030; IL 87761 A0 19890228; IL 87761 A 19930131; IN 170643 B 19920425; JP H01142018 A 19890602; NO 169783 B 19920427; NO 169783 C 19920805; NO 884390 D0 19881004; NO 884390 L 19890502; PL 156379 B1 19920331; PL 275470 A1 19890502; PT 88895 A 19890914; PT 88895 B 19970228; SU 1813194 A3 19930430; YU 193888 A 19900430; YU 46575 B 19931116; ZA 886832 B 19890530

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