

Title (en)

MAKING HEAT-EXCHANGING CAST METAL FORMING TOOL

Title (de)

HERSTELLUNG EINES WÄRMETAUSCHENDEN GIESSMETALLFORMWERKZEUGES

Title (fr)

PRODUCTION D'UN OUTIL DE FORMAGE A ECHANGE THERMIQUE POUR METAL COULE

Publication

EP 0973621 A1 20000126 (EN)

Application

EP 98910478 A 19980313

Priority

- US 9805294 W 19980313
- US 32803897 A 19970319

Abstract (en)

[origin: WO9841340A1] A one-piece cast metal heat-exchanging forming tool (10) is prepared using an expendable porous preform (34) that is cast in place within a cast metal forming tool. The expendable preform is thereafter extracted to leave behind a network of inter-connected pores and passages (32) within the body of the tool through which a heat transferring fluid may be circulated to transfer heat to or from a substantially non-porous contoured shaping surface of the tool. Fluid distribution/collection lines and vacuum lines (26, 28) may be incorporated in the tool during casting.

IPC 1-7

B22C 7/02; B22D 18/04; B22D 19/00; B22D 27/04; B22D 29/00

IPC 8 full level

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Citation (search report)

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