

Title (en)
CASTING IN A THERMALLY-INDUCED, LOW DENSITY ATMOSPHERE

Publication
EP 0124684 B1 19870506 (EN)

Application
EP 84101165 A 19840206

Priority
US 48347483 A 19830411

Abstract (en)
[origin: EP0124684A1] An apparatus and method for casting metal strip (6) include a moving chill body that has a quench surface. A nozzle mechanism (4) deposits a stream of molten metal on a quenching region (14) of the quench surface (5) to form the strip. The nozzle mechanism has an exit portion (26) with a nozzle orifice (22). A depletion mechanism heats a gas to lower the density thereof and to produce a low-density atmosphere. The gas (24) is supplied to a depletion region (13) located adjacent to and upstream of the quenching region to provide the low density atmosphere within the depletion region.

IPC 1-7
B22D 11/00; **B22D 11/06**; **B22D 11/10**; **B22D 27/00**

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CPC (source: EP)
B22D 11/005 (2013.01); **B22D 11/064** (2013.01)

Cited by
GB2183185A; GB2183185B; EP0409645A1; US5103895A

Designated contracting state (EPC)
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EP 0124684 A1 19841114; **EP 0124684 B1 19870506**; AU 2453584 A 19841018; CA 1241819 A 19880913; CA 1268923 C 19900515; DE 3463460 D1 19870611; JP H0218665 B2 19900426; JP S59209457 A 19841128

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EP 84101165 A 19840206; AU 2453584 A 19840213; CA 450625 A 19840327; DE 3463460 T 19840206; JP 7260284 A 19840411