

Title (en)
APPARATUS AND METHOD FOR SQUEEZE CASTING

Title (de)
VERFAHREN UND VORRICHTUNG ZUM PRESSGISSEN

Title (fr)
APPAREIL ET PROCEDE DE COULEE SOUS PRESSION

Publication
EP 0805725 B1 20001004 (EN)

Application
EP 96900650 A 19960123

Priority
• GB 9600137 W 19960123
• GB 9501261 A 19950123

Abstract (en)
[origin: WO9622851A1] The invention relates to a squeeze casting for the production of high integrity, near net shape castings. Apparatus for casting metal articles comprises a receptacle for molten metal, at least one mould cavity for casting the metal article, the mould cavity being defined by co-operating die parts, the die parts being moveable with respect to each other and their separation distance being selected to define a predetermined cavity volume for the cast article, a conduit having a first end connected to an entrance in the lower die part of the mould cavity and a second end connected to the receptacle, means for transferring molten metal upwardly from the receptacle through the conduit to fill or substantially fill the mould cavity, sealing means being provided to seal the entrance to the mould cavity wherein pressurising means are provided to apply pressure on the die parts to further reduce the cavity volume during solidification of the metal in the mould cavity.

IPC 1-7
B22D 17/00; **B22D 18/02**

IPC 8 full level
B22D 18/02 (2006.01)

CPC (source: EP)
B22D 18/02 (2013.01)

Designated contracting state (EPC)
CH DE DK ES FR GB IT LI SE

DOCDB simple family (publication)
WO 9622851 A1 19960801; AU 4455296 A 19960814; AU 708985 B2 19990819; CA 2211140 A1 19960801; DE 69610550 D1 20001109; DE 69610550 T2 20010510; EP 0805725 A1 19971112; EP 0805725 B1 20001004; GB 9501261 D0 19950315; JP H10512811 A 19981208

DOCDB simple family (application)
GB 9600137 W 19960123; AU 4455296 A 19960123; CA 2211140 A 19960123; DE 69610550 T 19960123; EP 96900650 A 19960123; GB 9501261 A 19950123; JP 52271696 A 19960123