

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 A1 19971112 (EN)**

Application  
**EP 96900650 A 19960123**

Priority  
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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.

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