

Title (en)  
FLUID COOLED CASTING APPARATUS HAVING IMPROVED FLUID SEAL

Publication  
**EP 0056976 B1 19850424 (EN)**

Application  
**EP 82100365 A 19820120**

Priority  
US 22854981 A 19810126

Abstract (en)  
[origin: EP0056976A1] An apparatus for the continuous casting of metallic strand (14) from a melt has a fluid-cooled coolerbody surrounding a casting die, (11) and resilient O-ring seals which surround the upper and lower ends of the coolerbody (15) to contain the cooling fluid within a distribution conduit. Extensions of the cooling fluid distribution conduit are formed within the coolerbody between the O-rings (48, 49) and the heat-dissipating strand, as protective thermal barriers to limit the temperature rise experienced by the O-rings. An annular shield also is disposed intermediate the upper O-ring (49) and the strand to form two air gaps which enhance the thermal barrier effect.

IPC 1-7  
**B22D 11/00**; **B22D 11/04**; **B22D 11/08**; **B22D 11/14**

IPC 8 full level  
**B22D 11/04** (2006.01); **B22D 11/00** (2006.01); **B22D 11/08** (2006.01); **B22D 11/14** (2006.01)

CPC (source: EP)  
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AT BE CH DE FR GB IT LI LU NL SE

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**EP 0056976 A1 19820804**; **EP 0056976 B1 19850424**; AT E12900 T1 19850515; AU 542870 B2 19850321; AU 7959282 A 19820805; CA 1183322 A 19850305; DE 3263197 D1 19850530; DK 22882 A 19820727; FI 68180 B 19850430; FI 68180 C 19850812; FI 820225 L 19820727; JP S57175060 A 19821027; JP S6121740 B2 19860528; NO 820187 L 19820727; ZA 82334 B 19821124

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