

Title (en)  
FLOOR LEAD-THROUGH ELEMENT FOR AN INVERSION CASTING VESSEL

Title (de)  
BODENDURCHFÜHRUNG EINES INVERSIONSGIESSGEFÄSSES

Title (fr)  
PASSAGE DANS LE FOND D'UN RECIPIENT DE COULEE PAR RETOURNEMENT

Publication  
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Application  
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Abstract (en)  
[origin: US5992501A] PCT No. PCT/DE96/00256 Sec. 371 Date Oct. 14, 1997 Sec. 102(e) Date Oct. 14, 1997 PCT Filed Feb. 7, 1996 PCT Pub. No. WO96/27465 PCT Pub. Date Sep. 12, 1996An inversion casting vessel includes a melt-filled container with a hole in the floor through which a metal strip is drawn. As the strip is drawn through the container, crystallization of the melt on the metal strip occurs, thereby forming a metal strand. The hole in the floor is a slit shaped channel through which the strip is run in a low-contact manner. The container also includes a cooling device for cooling the melt in the area of the slit shaped channel. The cooling device maintains the temperature of the melt around the channel to create a two-phase field of the melt, one of the phases being crystal, making up 50%-90% of the two phase field. The metal strip first contacts the melt at the two-phase field of the melt as the strip is run through the melt container.

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