

Title (en)  
IMPROVED ROLL CASTER APPARATUS

Publication  
**EP 0159176 A3 19860528 (EN)**

Application  
**EP 85302486 A 19850409**

Priority  

- US 59783484 A 19840409
- US 59783584 A 19840409
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- US 59791284 A 19840409

Abstract (en)  
[origin: EP0159176A2] An improved roll caster tip apparatus is disclosed comprising a molten metal reservoir (2) having a bottom plate (6) and at least one sidewall (16,18) and a nozzle tip membr (32) attached to the sidewall (16) having a top wall (36), a bottom wall (40) and a pair of converging side riser member (44,46) between the top wall (36) and the bottom wall (40) forming a converging passageway (50) terminating in an exit port (52) for molten metal to flow from the reservoir (2) to a pair of rollers (60, 62). The side risers (44,46) converge toward one another at the exit port (52) by being spaced apart a shorter distance at the exit port (52) than at the sidewall (16) of the molten metal reservoir (2) whereby metal flow separation along the side risers (44,46) will be mitigated, thereby providing uniform metal viscosity across the width of the nozzle tip member (32). Further disclosed is the including of a streamlined spacer member (70) between top (36) and bottom (40) walls of the tip member (32); preselecting the dimensions of the spacer member (70) and top (36) and bottom (40) walls to provide near Hele-Shaw flow conditions; and providing a baffle member (24) in the reservoir (2).

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Citation (search report)  

- [A] EP 0092844 A1 19831102 - HAZELETT STRIP CASTING CORP [US]
- [AD] FR 2398565 A1 19790223 - SCAL GP CONDIT ALUMINIUM [FR]
- [A] US 2978761 A 19610411 - FOYE JOHN J, et al

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