

Title (en)  
ECCENTRIC FUNNEL FOR FEEDING LIQUID ALUMINUM

Title (de)  
EXZENTRISCHER TRICHTER ZUM ZUFÜHREN VON FLÜSSIGEM ALUMINIUM

Title (fr)  
TRÉMIE EXCENTRIQUE D'ALIMENTATION EN ALUMINIUM LIQUIDE

Publication  
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Application  
**EP 10700146 A 20100104**

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Abstract (en)  
[origin: WO2010078667A1] The eccentric funnel (1) according to the invention for feeding liquid aluminum to the fill chamber of a die casting machine is arranged above the same and comprises an upper part (2) designed as a feed channel (4) and connected to a lower part designed as a filling tube (3). Following a straight starting piece (5), the feed channel (4) continues with ever increasing curvature, until it ends over the opening of the filling tube (3) in congruence therewith. In this way, the aluminum is given a rotary motion, whereby a homogeneous flow is achieved. Over the filling tube (3), the speed of the aluminum is drastically reduced, so that it is conducted at a low impact speed downward into the filling chamber, taking up the opening surface of the filling tube (3). In this way, washout and erosion is prevented in the filling chamber, thereby achieving a long service life of the die casting machine.

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