

ABSTRACT

COOLING LINE APPARATUS FOR COOLING MOLDS FILLED WITH MOLTEN METAL

A simplified apparatus of cooling lines is disclosed. A plurality of cooling lines ($Z_1 - Z_4$) are disposed between two parallel lines, a teeming line (X) and a mold-removing line (V). A mold sending-in line (Y) is disposed to connect the end portion of the teeming line and the starting portions of the cooling lines. A mold sending-out line (U) is disposed to connect the end portions of the cooling lines and the starting portion of the mold-removing line (V). A first transfer device (4) runs along the mold sending-in line (Y), while a second transfer device (6) runs along the mold sending-out line (U). Opposing electric servo-cylinders (15, 29) are mounted on a transfer truck (9) of the first transfer device (4) and a transfer truck (23) of the second transfer device (6).

Selected Drawing: Fig. 1