

Title (en)
Device for casting

Title (de)
Gießvorrichtung

Title (fr)
Dispositif de moulage

Publication
EP 2106867 A1 20091007 (EN)

Application
EP 09004312 A 20090326

Priority
US 9836808 A 20080404

Abstract (en)
The invention concerns to a casting machine for casting parts in a mold out of a metal using a metal feed stock. The machine comprises a processing cylinder formed in a thermally conductive block, said processing cylinder having a processing chamber and opposite first and second ends, the first end of the processing cylinder being configured to receive the metal feed stock; an injector cylinder formed in the thermally conductive block adjacent the processing cylinder, the injector cylinder having a shooting pot coupled to the second end of the processing cylinder by a passage configured to permit feed stock to pass from the processing cylinder into the shooting pot, a nozzle coupled to the injector cylinder configured to couple to the mold; a processing drive for driving the feed stock from the first end of the processing cylinder through the passage into the shooting pot, a heater thermally coupled to the processing cylinder, the heater and processing cylinder configured to heat the feed stock such that the feed stock becomes progressively more liquid as it passes from the first to the second end of the processing cylinder, and an injector plunger coupled to an injector actuator for driving the plunger sufficiently to force the metal from the shooting pot through the nozzle and into the mold.

IPC 8 full level
B22D 17/00 (2006.01)

CPC (source: EP)
B22D 17/007 (2013.01)

Citation (applicant)
US 5501266 A 19960326 - WANG KUO K [US], et al

Citation (search report)
• [XY] US 2002124988 A1 20020912 - TAKIZAWA KIYOTO [JP], et al
• [XY] US 2001052405 A1 20011220 - TAKIZAWA KIYOTO [JP], et al
• [IDY] US 5501266 A 19960326 - WANG KUO K [US], et al

Cited by
CN113953459A; CN116851695A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2106867 A1 20091007; EP 2106867 B1 20131127

DOCDB simple family (application)
EP 09004312 A 20090326