

Title (en)
FEEDING DEVICE AND SYSTEM AND HIGH PRESSURE MOULDING METHOD

Title (de)
ZUFÜHRUNGSVORRICHTUNG UND SYSTEM UND HOCHDRUCKFORMVERFAHREN

Title (fr)
DISPOSITIF ET SYSTÈME D'ALIMENTATION ET PROCÉDÉ DE MOULAGE HAUTE PRESSION

Publication
EP 3202508 A1 20170809 (EN)

Application
EP 14903213 A 20141020

Priority
• CN 201410521728 A 20140930
• CN 2014088988 W 20141020

Abstract (en)
The invention discloses a feeding device, a feeding system, and a high-pressure molding method that belong to the technical field of casting, the feeding device comprising a locating element for connecting with a sleeve and a knock-off element connected with the locating element, in which: the locating element is in the shape of a disk with a through hole at the center, and a boss extending upwards is provided at the center of the locating element at the location of the through hole; the knock-off element is tube-shaped, with its upper part being cylinder-shaped and lower part being cone-shaped, and the upper part of the knock-off element is interference fitted in the boss of the locating element; the locating element and knock-off element are both made of metal. In present invention, the pressure subjected by the sleeve is reduced by the relative displacement between the locating element and the knock-off element that results from friction, thus achieving an effect of buffering and protecting the sleeve relatively well. The problems of sand loss resulting from the contact and friction between the knock-off core and the sleeve and the sleeve being prone to inclination in the prior art can be avoided in the invention.

IPC 8 full level
B22C 9/08 (2006.01); **B22D 31/00** (2006.01)

CPC (source: EP)
B22C 9/02 (2013.01); **B22C 9/084** (2013.01); **B22C 9/088** (2013.01)

Cited by
EP3700693B1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3202508 A1 20170809; **EP 3202508 A4 20180328**; **EP 3202508 B1 20200226**; CN 105522115 A 20160427; CN 105522115 B 20171219; ES 2779928 T3 20200820; WO 2016049950 A1 20160407

DOCDB simple family (application)
EP 14903213 A 20141020; CN 2014088988 W 20141020; CN 201410521728 A 20140930; ES 14903213 T 20141020