

Title (en)

MANIPULATOR FOR FASTENING A CASTING TUBE TO AN OUTLET GATE OF A POURING LADLE

Publication

EP 0265414 A3 19880706 (DE)

Application

EP 87890204 A 19870904

Priority

AT 280186 A 19861022

Abstract (en)

[origin: US4819841A] A manipulator for engaging a pouring tube (11) with the discharge gate valve of pouring ladle is designed so that the position of a cylinder (7) for turning a boom (4) for holding the pouring tube (11) depends on the pressure applied to the turning cylinder (7). This is accomplished by a spring (15) interposed between the turning cylinder (7) and the boom (4).

IPC 1-7

B22D 11/10; B22D 41/08; B22D 41/10

IPC 8 full level

B22D 41/56 (2006.01)

CPC (source: EP US)

B22D 41/56 (2013.01 - EP US)

Citation (search report)

- [Y] DE 1284577 C
- [YD] DE 3425676 A1 19851219 - STOPINC AG [CH]
- [A] FR 2443894 A2 19800711 - DAUSSAN HENRI

Cited by

RU2639089C2; EP0528724A1; FR2680126A1; DE102013222486A1

Designated contracting state (EPC)

DE ES IT

DOCDB simple family (publication)

EP 0265414 A2 19880427; **EP 0265414 A3 19880706**; **EP 0265414 B1 19900404**; AT 394818 B 19920625; AT A280186 A 19880115; DE 3762094 D1 19900510; ES 2015327 B3 19900816; US 4819841 A 19890411

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EP 87890204 A 19870904; AT 280186 A 19861022; DE 3762094 T 19870904; ES 87890204 T 19870904; US 10480487 A 19871002