

Title (en)

Shaft and post assemblies for molten metal pumping apparatus

Title (de)

Zugankerverbindung bei einer Vorrichtung zum Pumpen von flüssigem Metall

Title (fr)

Ensembles arbre et montants pour appareil de pompage de metal fondu

Publication

**EP 1522735 A3 20051116 (EN)**

Application

**EP 05000809 A 19991109**

Priority

- EP 99971898 A 19991109
- US 10770198 P 19981109

Abstract (en)

[origin: EP1522735A2] A molten metal pump post comprising an elongated rod (29), a sheath (31) receiving the elongated rod such that a first end and a second end of the rod extends from the sheath, a coupling unit (41) at least partially surrounding a first portion of the sheath member proximal the first end of the rod, and a biasing member (43) at least partially surrounding a portion of the rod adjacent the first end of the rod. <IMAGE>

IPC 1-7

**F04D 7/06**; F04B 15/04; F04B 53/22; C22B 21/06; C22B 9/05

IPC 8 full level

**B22D 39/00** (2006.01); **C22B 9/05** (2006.01); **C22B 21/06** (2006.01); **F04B 15/04** (2006.01); **F04B 53/22** (2006.01); **F04D 7/06** (2006.01)

CPC (source: EP)

**B22D 39/00** (2013.01); **F04D 7/065** (2013.01); **C22B 9/05** (2013.01)

Citation (search report)

- [A] US 5558505 A 19960924 - MORDUE GEORGE S [US], et al
- [A] WO 9825031 A2 19980611 - COOPER PAUL V [US]
- [A] EP 0610708 A1 19940817 - MAUCHER EBERHARD [DE]
- [DA] US 4598899 A 19860708 - COOPER PAUL V [US]
- [DA] US 4898367 A 19900206 - COOPER PAUL V [US]

Designated contracting state (EPC)

BE DE ES FR GB IT

DOCDB simple family (publication)

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