

Title (en)

Liquid metal pump for chemical reactor heating circuit

Title (de)

Flüssigmetallpumpe für Heizkreislauf eines chemischen Reaktors

Title (fr)

Pompe à métal liquide pour circuit de chauffage de réacteur chimique

Publication

EP 2644896 A2 20131002 (EN)

Application

EP 12461540 A 20120907

Priority

PL 39866912 A 20120331

Abstract (en)

Body (8) of the pump for chemical reactor heating circuit is equipped with inflow chambers (3 , 3a) on both sides of the rotor (9), to which liquid metal is fed by means of at least two-way collector (2). Collector (2) sections are chosen to maintain quantitative balance of liquid metal fed into both inflow chambers (3 , 3a). Each arm of collector (2) is introduced into inflow chamber (3) and inflow chamber (3a) in favourably tangent way, causing whirl of metal stream according to sense of rotation of rotor (9).

IPC 8 full level

F04D 1/00 (2006.01); **F04D 7/06** (2006.01)

CPC (source: EP)

F04D 1/006 (2013.01); **F04D 7/065** (2013.01)

Citation (applicant)

- JP 2009243285 A 20091022 - HITACHI GE NUCLEAR ENERGY LTD
- US 2010196151 A1 20100805 - COOPER PAUL V [US]
- CN 101363691 A 20090211 - COOPER PAUL V [US]
- KR 20090126368 A 20091209 - PHOMINI SYSTEM [KR]
- CA 2538556 A1 20060907 - THUT BRUNO H [US]
- MX PA05004332 A 20050803 - PYROTEK INC [US]
- US 2001000465 A1 20010426 - THUT BRUNO H [US]
- WO 2004040143 A1 20040513 - PYROTEK INC [US], et al
- CN 201666260 U 20101208 - DAOHONG WANG
- CN 202157970 U 20120307 - ZMAG LTD
- CN 201335021 Y 20091028 - TAIYUAN HENGRUI MAGNESIUM TECH [CN]
- CN 2890429 Y 20070418 - NANJING WELBOW METALS CO LTD [CN]
- US 6439860 B1 20020827 - GREER KARL [US]
- US 6345964 B1 20020212 - COOPER PAUL V [US]
- JP 4874243 B2 20120215
- PL 205686 B1 20100531 - SARRE PIOTR [PL], et al

Designated contracting state (EPC)

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BA ME

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