

Title (en)  
PUMPING APPARATUS

Title (de)  
PUMPVORRICHTUNG

Title (fr)  
DISPOSITIF DE POMPAGE

Publication  
**EP 4098871 A1 20221207 (EN)**

Application  
**EP 22176517 A 20220531**

Priority  
IT 202100014276 A 20210601

Abstract (en)

Pumping apparatus (10) comprising a bearing structure (11) and a pumping unit (13) which is provided with pumping members (19, 20, 21) which are configured to pump material from a feed compartment (15) toward an outlet end (16). Damper members (23, 24, 25, 26, 27) are interposed between the pumping unit (13) and the bearing structure (11).

IPC 8 full level  
**F04B 15/02** (2006.01); **F04B 53/00** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP)  
**F04B 15/023** (2013.01); **F04B 53/003** (2013.01); **F04B 53/16** (2013.01)

Citation (applicant)

- JP 2015502477 A 20150122
- CN 109236603 A 20190118 - ANHUI MINGGUANG RUISHENG MACHINERY CO LTD
- US 2019331110 A1 20191031 - GABLE TOM [US], et al
- IT 1401514 B1 20130726 - CIFA S P A UNICO SOCIO [IT]

Citation (search report)

- [A] JP 2015502477 A 20150122
- [A] CN 110439774 A 20191112 - XUZHOU DINGNENG CONCRETE PRODUCTS CO LTD
- [A] CN 109236603 A 20190118 - ANHUI MINGGUANG RUISHENG MACHINERY CO LTD
- [A] US 2019331110 A1 20191031 - GABLE TOM [US], et al
- [A] WO 2015068754 A1 20150514 - SANDEN CORP [JP]

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4098871 A1 20221207; EP 4098871 B1 20240320;** IT 202100014276 A1 20221201

DOCDB simple family (application)  
**EP 22176517 A 20220531;** IT 202100014276 A 20210601