

Title (en)
PIPE-TYPE MIXER

Title (de)
ROHRMISCHER

Title (fr)
MÉLANGEUR À TUYAUX

Publication
EP 3587987 A4 20201104 (EN)

Application
EP 17912567 A 20170607

Priority
CN 2017087364 W 20170607

Abstract (en)
[origin: EP3587987A1] Disclosed is a pipe-type mixer, comprising an inner sleeve pipe (2) taking a mixing action and an outer sleeve pipe (1) taking a heat-exchange action, wherein the inner sleeve pipe (2) is located inside the outer sleeve pipe (1), and the cross section of the inner sleeve pipe (2) is a hexagon and is formed of a combination of one section of inner pipe twisting clockwise along the pipe centre and one section of inner pipe twisting anticlockwise. The pipe-type mixer is for a complex fluid with high solid content, high viscosity or containing fibers, while realizing enhanced mass transfer and heat transfer, and has anti-fouling, anti-blockage and alternative mechanical stirring functions.

IPC 8 full level
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Citation (search report)

- [X1] JP 2001353431 A 20011225 - NORITAKE CO LTD
- [X1] JP 2002364997 A 20021218 - FUJI ENTERPRISE CO LTD, et al
- [A] US 5772793 A 19980630 - ASHCROFT JOHN [US], et al
- [A] US 2007187067 A1 20070816 - HORIGUCHI KEN [JP], et al
- See also references of WO 2018223296A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3587987 A1 20200101; **EP 3587987 A4 20201104**; **EP 3587987 B1 20230215**; CN 110431371 A 20191108; CN 110431371 B 20240507; WO 2018223296 A1 20181213

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EP 17912567 A 20170607; CN 2017087364 W 20170607; CN 201780088617 A 20170607