

Title (en)

MIXING DEVICE FOR POLYETHYLENE REACTOR SYSTEM

Title (de)

MISCHVORRICHTUNG FÜR EIN POLYETHYLENREAKTORSYSTEM

Title (fr)

DISPOSITIF DE MÉLANGE POUR SYSTÈME DE RÉACTEUR EN POLYÉTHYLÈNE

Publication

**EP 4374955 A1 20240529 (EN)**

Application

**EP 22208841 A 20221122**

Priority

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Abstract (en)

The invention relates to a mixing device comprising:- a supply section (200), and- a pipe-in-pipe section (100) comprising:- an outer pipe (110) extending vertically and- an inner pipe (120) having a closed top end and having an outlet for the mixture at a bottom end, wherein the inner pipe (120) is arranged concentrically to the outer pipe (110) inside the outer pipe (110) such that an annular space (130) is formed between the outer pipe (110) and the inner pipe (120), wherein the annular space has a closed top end and a closed bottom end, wherein the inner pipe (120) is provided with at least two inner flow inlets (121, 122) for receiving a flow from the annular space (130) into the inner pipe, wherein the outer pipe (110) is provided with an outer flow inlet (111) for receiving a flow from the supply section (200) into the annular space, the outer flow inlet (111) being provided such that a tangential flow is generated in the annular space (130) during use, wherein the two or more inner flow inlets are provided closer to the top end of the annular space than the outer flow inlet.

IPC 8 full level

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Citation (applicant)

WO 2010081684 A1 20100722 - BASELL POLYOLEFINE GMBH [DE], et al

Citation (search report)

- [A] US 6361688 B1 20020326 - NELSON WILLIAM R [US]
- [A] US 7097160 B2 20060829 - NELSON WILLIAM R [US]
- [A] US 6054046 A 20000425 - NELSON WILLIAM R [US]

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