

Title (en)

Mixing device, spraying device for pest management and method for operating a spraying device

Title (de)

Mischvorrichtung, Spritzvorrichtung für den Pflanzenschutz und Verfahren zum Betreiben einer Spritzvorrichtung

Title (fr)

Dispositif de mélange, dispositif de pulvérisation pour la protection des plantes et procédé de fonctionnement d'un dispositif de pulvérisation

Publication

EP 1902774 A1 20080326 (DE)

Application

EP 07018248 A 20070918

Priority

DE 102006045449 A 20060919

Abstract (en)

The device (10) for mixing carrier liquid with active substance for field syringe for plant protection, comprises mainstream line (12a, 12b), active substance supply line (18), a mixing chamber (16), and a downstream line (14a, 14b) connected with an injector-agitating nozzle arranged in the mixing chamber. The mixing chamber is branched in one of the main stream line and arranged in the downstream line. Units are intended to guide a mainstream to complete stream or a part of the stream through the mainstream line and the downstream line in dependence of a size. The device (10) for mixing carrier liquid with active substance for field syringe for plant protection, comprises mainstream line (12a, 12b), active substance supply line (18), a mixing chamber (16), and a downstream line (14a, 14b) connected with an injector-agitating nozzle arranged in the mixing chamber. The mixing chamber is branched in one of the main stream line and arranged in the downstream line. Units are intended to guide a mainstream to complete stream or a part of the stream through the mainstream line and the downstream line in dependence of a size. Units are intended to define a size of the downstream flow branched from the main stream line and/or to limit a maximum value. Independent claims are included for: (1) an injection device for atomizing of injecting unit for the plant protection; and (2) a method for the operation of an injection device for the plant protection.

Abstract (de)

Die Erfindung betrifft eine Mischvorrichtung zum Mischen einer Trägerflüssigkeit mit wenigstens einem Wirkstoff, insbesondere für eine Feldspritze für den Pflanzenschutz, mit einer Hauptstromleitung, einer Wirkstoffzuleitung und einer Mischkammer. Erfindungsgemäß ist die Mischkammer in einer von der Hauptstromleitung abzweigenden und wieder in diese einmündenden Nebenstromleitung angeordnet. Verwendung z.B. bei Feldspritzen für landwirtschaftliche Zwecke.

IPC 8 full level

B01F 3/08 (2006.01); **B01F 5/04** (2006.01)

CPC (source: EP)

B01F 23/451 (2022.01); **B01F 25/21** (2022.01); **B01F 25/32** (2022.01); **B01F 25/312** (2022.01); **B01F 25/42** (2022.01); **B01F 35/145** (2022.01)

Citation (applicant)

- FR 2545685 A1 19841116 - RHONE POULENC AGROCHIMIE [FR]
- US 3181797 A 19650504 - HAYES STANLEY A
- US 2005173326 A1 20050811 - SPEECE RICHARD F [US]

Citation (search report)

- [X] FR 2545685 A1 19841116 - RHONE POULENC AGROCHIMIE [FR]
- [X] US 3181797 A 19650504 - HAYES STANLEY A
- [X] US 2005173326 A1 20050811 - SPEECE RICHARD F [US]
- [X] US 5000844 A 19910319 - CLOUP PHILIPPE [FR]
- [X] US 2005124734 A1 20050609 - HUCKS UWE [DE], et al
- [A] FR 2688709 A1 19930924 - SCHLUMBERGER CIE DOWELL [FR]

Cited by

CN106807579A; US11096385B2; CN104541731A; CN109430217A

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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