

Title (en)

Device and process for mixing a pulverulent solid component to a liquid material.

Title (de)

Einrichtung und Verfahren zum Beimischen einer schüttbaren Feststoffkomponente zu einer flüssigen Grundmasse.

Title (fr)

Dispositif et procédé pour mélanger un composant pulvérulent solide dans un matériau liquide.

Publication

EP 0570335 B1 19950823 (DE)

Application

EP 93810315 A 19930429

Priority

CH 139792 A 19920430

Abstract (en)

[origin: EP0570335A1] The device (1) for admixing a pourable component to a liquid based composition contains a vessel (2) which has at least one stirrer (10, 11) rotatable about a vertical axis (3). The device (1) further has a line (14) which is connected to an inlet (6a) and an outlet (8) of the vessel (2) and through which at least part of the liquid based composition is passed. During operation of the device, the pourable component, for example a pulverulent drug is admixed particulate, via a solids introduction appliance (17) arranged in the line (14), to the liquid base composition passed through the line (14). This manner of solids uptake has the advantage, compared to previously known methods, that the pourable component is dispersed relatively rapidly and uniformly in the material and that no agglomerates of solid particles are formed when this component is introduced. Moreover, the components of the material being mixed are blended optimally as a result of the fact that the material flowing back into the vessel (2) is homogenised gently by a turbulence tube (vortex tube) (18) and is dispersed uniformly in the interior (7). <IMAGE>

IPC 1-7

B01F 5/10

IPC 8 full level

B01F 5/10 (2006.01); **B01F 7/00** (2006.01); **B01F 7/16** (2006.01); **B01F 7/18** (2006.01); **B01F 7/24** (2006.01)

CPC (source: EP)

B01F 23/50 (2022.01); **B01F 25/53** (2022.01); **B01F 27/1122** (2022.01); **B01F 27/1145** (2022.01); **B01F 27/2322** (2022.01); **B01F 27/85** (2022.01); **B01F 27/90** (2022.01); **B01F 27/92** (2022.01)

Cited by

DE19961088C2; CN1111569699A; CN103657469A; EP2616171A4; CN110935358A; CN105130144A; EP1043061A1; US2013008321A1; US9375689B2; ITBO20090604A1; CN111013450A; CN110917943A; CN111266030A; CN108554216A; US6200937B1; EP2985073A1; DE102007060455A1; WO2022243797A1

Designated contracting state (EPC)

CH DE FR IT LI NL

DOCDB simple family (publication)

EP 0570335 A1 19931118; **EP 0570335 B1 19950823**; DE 59300496 D1 19950928

DOCDB simple family (application)

EP 93810315 A 19930429; DE 59300496 T 19930429