

Title (en)

Method for using a program controlled stirrer

Title (de)

Verfahren zur Verwendung eines programmgesteuerten Rührwerks

Title (fr)

Procédé pour l'utilisation d'un mélangeur commandé par programme

Publication

EP 1324820 B1 20040428 (DE)

Application

EP 01969769 A 20010925

Priority

- DE 10049002 A 20000927
- EP 0111060 W 20010925

Abstract (en)

[origin: WO0226369A1] The invention relates to a program controlled stirrer for producing pharmaceutical or cosmetic recipes, comprising a stirring unit (1) which consists of a stirring tool which engages with a mixing receptacle. According to the invention, the stirring unit is coupled to a micro-processor (5) which determines the length of stirring time and stirring speed at the stirring unit (1) in a program-controlled manner. The micro-processor executes a data-processing program with the following steps: input of (11) variable data; input of (11) constant data; determination (12) of the length of stirring time and stirring speed in order to produce the desired amount of the recipe by combining the variable and constant data; conversion of the determined length of stirring time and stirring speed into corresponding first current or voltage values; control of the stirring unit with said first current or voltage values. Preferably, the size of the receptacle is inputted as variable data, whereby the data-processing program calculates the number of necessary rotations of the stirring tool using the constant data stored in the data memory, then controls the stirring unit correspondingly.

IPC 1-7

B01F 15/00

IPC 8 full level

B01F 7/16 (2006.01); **B01F 7/00** (2006.01); **B01F 13/10** (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP KR US)

B01F 33/84 (2022.01 - EP US); **B01F 33/8442** (2022.01 - EP US); **B01F 33/848** (2022.01 - EP US); **B01F 35/00** (2022.01 - KR); **B01F 35/2209** (2022.01 - EP US); **B01F 2101/21** (2022.01 - EP US); **B01F 2101/22** (2022.01 - EP US); **Y10S 366/601** (2013.01 - EP US)

Cited by

DE102009044077A1; WO2011036098A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0226369 A1 20020404; AT E265265 T1 20040515; AU 8992001 A 20020408; BR 0114230 A 20030826; BR PI0114230 B1 20160719; CA 2422545 A1 20030314; CA 2422545 C 20090825; CN 1235672 C 20060111; CN 1462209 A 20031217; CZ 2003847 A3 20031015; CZ 301040 B6 20091021; DE 10049002 A1 20020425; DE 10049002 C2 20030522; DE 20121572 U1 20030206; DE 50102164 D1 20040603; EP 1324820 A1 20030709; EP 1324820 B1 20040428; ES 2220804 T3 20041216; HR P20030318 A2 20050228; HR P20030318 B1 20060930; HU 227686 B1 20111128; HU P0302658 A2 20031128; HU P0302658 A3 20040128; JP 2004509737 A 20040402; JP 5111717 B2 20130109; KR 100796872 B1 20080122; KR 20030059132 A 20030707; PL 360598 A1 20040920; RS 50296 B 20090908; RU 2246983 C2 20050227; SK 287370 B6 20100809; SK 3962003 A3 20030701; TR 200401829 T4 20040921; UA 77161 C2 20061115; US 2004029772 A1 20040212; US 7751934 B2 20100706; YU 21903 A 20040512

DOCDB simple family (application)

EP 0111060 W 20010925; AT 01969769 T 20010925; AU 8992001 A 20010925; BR 0114230 A 20010925; CA 2422545 A 20010925; CN 01816137 A 20010925; CZ 2003847 A 20010925; DE 10049002 A 20000927; DE 20121572 U 20010925; DE 50102164 T 20010925; EP 01969769 A 20010925; ES 01969769 T 20010925; HR P20030318 A 20030423; HU P0302658 A 20010925; JP 2002530191 A 20010925; KR 20037003486 A 20030310; PL 36059801 A 20010925; RU 2003110174 A 20010925; SK 3962003 A 20010925; TR 200401829 T 20010925; UA 2003043508 A 20010925; US 38174403 A 20030325; YU P21903 A 20010925