

Title (en)

LAUNDRY CARE APPLIANCE WITH CONTROLS

Title (de)

WÄSCHEPFLEGEGERÄT MIT EINER STEUERUNG

Title (fr)

APPAREIL D'ENTRETIEN DE LINGE DOTÉ D'UNE COMMANDE

Publication

EP 3351674 B1 20200923 (DE)

Application

EP 18150541 A 20180108

Priority

DE 102017201008 A 20170123

Abstract (en)

[origin: CN108342877A] A laundry care device has an alkali liquor container for receiving a washing liquid and a control device for controlling a pump. The alkali liquor container has a discharge opening fluidly connected to a conduit. In the conduit, a variable-speed pump for pumping the washing liquid from the alkali liquor container through the conduit is arranged. The control device is configured to activate the variable-speed pump to operate at a nominal pumping speed during a first period of time, to pump the washing liquid from the alkali liquor container through the conduit at a nominal volume flow. The control device is configured to reduce the nominal pumping speed of the variable-speed pump to a minimum pumping speed during a second period of time when the volume flow rate of the washing liquid pumped by the variable-speed pump falls below a volume flow minimum threshold. The control device is configured to increase the minimum pumping speed of the variable-speed pump to a maximum pump speed during a third time period when the volume flow rate of the washing liquid pumped by the variable-speed pump reaches the volume flow minimum threshold. The control device is configured to reduce the maximum pumping speed of the variable-speed pump to the nominal pumping speed during a fourth period of time when the volume flow rate of the washing liquid pumped by the variable-speed pump reaches the nominal volume flow rate.

IPC 8 full level

D06F 33/00 (2020.01); **D06F 33/36** (2020.01); **D06F 39/08** (2006.01)

CPC (source: CN EP US)

D06F 33/36 (2020.02 - CN EP US); **D06F 39/085** (2013.01 - CN EP US); **D06F 39/082** (2013.01 - CN EP US);
D06F 39/087 (2013.01 - CN EP US); **D06F 2103/04** (2020.02 - CN EP US); **D06F 2103/14** (2020.02 - CN EP US);
D06F 2103/18 (2020.02 - CN EP US); **D06F 2103/42** (2020.02 - CN EP US); **D06F 2103/48** (2020.02 - CN EP US);
D06F 2105/06 (2020.02 - CN EP US); **D06F 2105/08** (2020.02 - CN EP US)

Cited by

CN111945380A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102017201008 B3 20180621; CN 108342877 A 20180731; CN 108342877 B 20210706; EP 3351674 A1 20180725; EP 3351674 B1 20200923

DOCDB simple family (application)

DE 102017201008 A 20170123; CN 201810043536 A 20180117; EP 18150541 A 20180108