

Title (en)

DRYER WITH HIGH AIR TIGHTNESS OF A PROCESS AIR CIRCUIT AND PROCESS FOR OPERATING THE DRYER

Title (de)

TROCKNER MIT HOHER LUFTDICHTHEIT EINES PROZESSLUFTKREISLAUFES UND VERFAHREN ZUM BETRIEB DES TROCKNERS

Title (fr)

SÉCHOIR D'UN CIRCUIT D'AIR DE TRAITEMENT À HAUTE ÉTANCHÉITÉ À L'AIR ET PROCÉDÉ DE FONCTIONNEMENT DU SÉCHOIR

Publication

EP 4219822 A1 20230802 (EN)

Application

EP 22153372 A 20220126

Priority

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Abstract (en)

A dryer 1 comprising a drum 2 and a process air circuit 3 including a blower 12 ; a condensing device 18; a condensate collecting vessel 5; a condensate tank 6; an overflow container 8; an electric pump unit 7; a pump conduit 9 fluidly connecting a pump outlet 35 to a condensate tank inlet 36; an overflow conduit 10 fluidly connecting the overflow container 8 to the condensate collecting vessel 5. The pump conduit 9 comprises at a bypass conduit entry point 31 a flap system 25 including a flap 27 allowing a flow of condensate 22 from the pump outlet 35 to pass directly to the condensate tank 6 in that the bypass conduit 26 is closed by the flap 27, and to allow a flow of condensate 22 into the bypass conduit 26 and an overflow siphon 24 when the flow direction has changed.

IPC 8 full level

D06F 58/24 (2006.01); **D06F 58/38** (2020.01); **D06F 25/00** (2006.01); **D06F 58/20** (2006.01); **D06F 58/30** (2020.01); **D06F 103/58** (2020.01); **D06F 105/08** (2020.01)

CPC (source: CN EP)

D06F 58/02 (2013.01 - CN); **D06F 58/20** (2013.01 - CN); **D06F 58/206** (2013.01 - CN); **D06F 58/24** (2013.01 - CN EP); **D06F 58/38** (2020.02 - EP); **D06F 25/00** (2013.01 - EP); **D06F 58/206** (2013.01 - EP); **D06F 58/30** (2020.02 - EP); **D06F 2103/58** (2020.02 - EP); **D06F 2105/08** (2020.02 - EP)

Citation (applicant)

- EP 2141279 A1 20100106 - MIELE & CIE [DE]
- EP 2450615 A1 20120509 - CREE INC [US]

Citation (search report)

- [A] WO 2015101388 A1 20150709 - ELECTROLUX APPLIANCES AB [SE]
- [A] WO 2017119589 A1 20170713 - LG ELECTRONICS INC [KR]
- [A] KR 20190128487 A 20191118 - LG ELECTRONICS INC [KR]
- [A] WO 2007058009 A1 20070524 - TOSHIBA KK [JP], et al

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

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BA ME

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