

Title (en)

Machine and process for drying humid articles with superheating a refrigerant

Title (de)

Maschine und Verfahren zum Trocknen von feuchten Artikeln mit Überhitzung eines Kühlmittels

Title (fr)

Machine et procédé pour le séchage d'articles humide par surchauffe d'un réfrigérant

Publication

EP 2412868 A1 20120201 (EN)

Application

EP 10382209 A 20100729

Priority

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Abstract (en)

The invention relates to a machine (1) comprising a treating chamber (2) for drying humid articles (3) by process air at a pressure substantially equal to an ambient pressure, a process air guide (5) for guiding the process air through said treating chamber (2) in a first circuit substantially closed in itself, said process air guide (5) comprising a first blower (6) for driving the process air, a heater (10) for heating the process air and placed upstream of said treating chamber (2), and a cooler (8) for cooling the process air and placed downstream of said treating chamber (2), wherein said heater (10) and cooler (8) form a heat pump (8,10,12,13) comprising a compressor (12) for driving and compressing the refrigerant through said heat pump and an expander (13) for expanding the refrigerant in a refrigerant circuit (11) and an operating unit (14) for operating said heat pump. Said machine (1) is provided to be operable with superheating the refrigerant to between 6°C and 22°C. Further, the invention relates to a process for execution in such a machine (1).

IPC 8 full level

D06F 58/20 (2006.01)

CPC (source: EP US)

D06F 58/206 (2013.01 - EP US)

Citation (applicant)

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- EP 2138627 A1 20091230 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

Citation (search report)

- [XII] US 2007107255 A1 20070517 - TAMURA TOMOICHIRO [JP], et al
- [A] EP 1964965 A1 20080903 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

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Designated contracting state (EPC)

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