

Title (en)
Laundry treatment machine with heat exchanger and process air channel

Title (de)
Wäschebehandlungsmaschine mit Wärmetauscher und Prozessluftkanal

Title (fr)
Machine de traitement du linge avec échangeur de chaleur et procédé canal d'air

Publication
EP 2628845 A1 20130821 (EN)

Application
EP 12156152 A 20120220

Priority
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Abstract (en)
The invention relates to a laundry treatment machine, in particular dryer or washing machine having drying function, comprising: a laundry storing compartment; a heat exchanger (28) adapted to transfer heat between a refrigerant contained within the heat exchanger and process air passing through the heat exchanger, wherein the heat exchanger has an outlet (29) where the process air exits the heat exchanger; a blower (30) adapted to convey the process air in a loop through the laundry storing compartment and the heat exchanger (28), wherein the blower has a suction inlet (19) and is arranged downstream the heat exchanger with respect to the process air flow direction; an air channel (16) adapted to guide the process air from the heat exchanger outlet (29) to the blower suction inlet (19); and a flow guiding and partition unit (40) arranged within the air channel (16) and comprising at least one flow partition wall (42, 44, 46). Preferably a front edge of at least one of the flow partition walls or of each flow partition wall (42, 44, 46) is arranged facing and close to or intersecting the area of the heat exchanger outlet (29).

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CPC (source: EP US)
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Citation (applicant)
• DE 8125929 U1 19830113
• EP 1550763 A2 20050706 - LG ELECTRONICS INC [KR]

Citation (search report)
• [I] DE 19644711 A1 19980430 - AEG HAUSGERAETE GMBH [DE]
• [AD] EP 1550763 A2 20050706 - LG ELECTRONICS INC [KR]

Cited by
DE102017103633A1; EP2980306A1; CN111005193A; CN112024325A; DE102014114678A1; DE102014114678B4; CN108468185A; EP3933095A1; CN111021013A; EP3604664A4; DE102016210166A1; EP3514469A1; US11255615B2; EP2990517A1; CN106574427A; CN108797056A; AU2015309197B2; WO2016030113A1; WO2017020946A1; EP2990517B1

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