

Title (en)  
A laundry dryer with a heat pump system

Title (de)  
Wäschetrockner mit Wärmepumpensystem

Title (fr)  
Sèche-linge avec système de pompe à chaleur

Publication  
**EP 2594687 B1 20140910 (EN)**

Application  
**EP 11189866 A 20111121**

Priority  
EP 11189866 A 20111121

Abstract (en)  
[origin: EP2594687A1] A laundry dryer with a heat pump system comprising a refrigerant circuit (10) for a refrigerant and a drying air circuit (12) for a drying air, wherein the refrigerant circuit (10) includes a high pressure portion extending from the outlet of a compressor (14) via a first heat exchanger (16) to the inlet of lamination means (20) and a low pressure portion extending from the outlet of the lamination means (20) via a second heat exchanger (22) to the inlet of the compressor (14), the refrigerant operates at least at critical pressure in the high pressure portion of the refrigerant circuit (10), wherein the refrigerant circuit (10) includes at least one auxiliary heat exchanger (18) interconnected between the first heat exchanger (16) and the lamination means (20), the auxiliary heat exchanger (18) is a heat exchanger between the refrigerant and ambient air or water, at least one auxiliary fan (24) for driving the ambient air or at least a water delivery device for supplying water corresponds with the auxiliary heat exchanger (18), and the auxiliary fan (24) or the water delivery device is controlled or controllable in dependence of at least a parameter associated to the drying air and/or to the refrigerant.

IPC 8 full level  
**D06F 58/20** (2006.01)

CPC (source: EP US)  
**D06F 58/206** (2013.01 - EP US)

Cited by  
CN104562600A; CN107270696A; CN107089696A; CN111750658A; EP3323933A4; CN104566973A; CN108716090A; US10502478B2; KR20160149851A; US10087569B2; US10633785B2; KR20160149852A; US10519591B2; US11299834B2; US10514194B2; US10718082B2; US10823479B2; US10662575B2; KR102137574B1; US10738411B2; EP3712322A1; US11542653B2

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