

Title (en)
Rotary-drum laundry dryer

Title (de)
Wäschetrockner mit Drehtrommel

Title (fr)
Sèche-linge à tambour rotatif

Publication
EP 2527523 B1 20140226 (EN)

Application
EP 11167964 A 20110527

Priority
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Abstract (en)
[origin: EP2527523A1] Rotary-drum laundry dryer (1) comprising a revolving drum (3) structured for housing the laundry to be dried, a hot-air generator (6) structured to circulate a stream of hot air through said revolving drum (3), and a lower supporting base or socle (9) which is structured for resting on the floor and for housing at least part of the hot-air generator (6); the hot-air generator (6) in turn comprising: an air recirculating conduit (12) having its two ends connected to the revolving drum (3); air circulating means (13) which are located along the air recirculating conduit (12) and are structured to produce, inside the air recirculating conduit (12), an airflow (f) which flows through the revolving drum (3) and over the laundry inside the drum (3); and at least one heat exchanger (15) located along the air recirculating conduit (12) and structured to cool the moist air arriving from the rotatable drum (3) so to cause the condensation of the surplus moisture inside the airflow (f); the lower supporting base or socle (9) comprising a lower half-shell (9a) structured for resting on the floor, and an upper half-shell (9b) stacked up on top of, and rigidly coupled to said lower half-shell (9a); said lower half-shell (9a) and upper half-shell (9b) being shaped so as to form, when coupled to one another, a section of the air recirculating conduit (12) which houses at least the heat exchanger (15) of said hot-air generator (6); the air circulating means (13) of the hot-air generator (6) comprising an impeller housing (18) which communicates with said section of the air recirculating conduit (12), and an impeller (19) which is housed in axially rotating manner inside the impeller housing (18) to generate the airflow (f); the laundry dryer (1) being characterized in that the impeller housing (18) of the air circulating means (13) comprises a first portion (18a) realized in one piece with the lower half-shell (9a), and a second portion (18b) realized in one piece with the upper half-shell (9b); and in that said first portion (18a) and said second portion (18b) are structured for being coupled to one another so as to form a substantially circular, basin-shaped casing (18a, 18b) that at least partly covers the impeller vanes (19a).

IPC 8 full level
D06F 58/20 (2006.01)

CPC (source: EP US)
D06F 58/20 (2013.01 - EP US); **D06F 58/206** (2013.01 - EP US)

Cited by
EP2843114A1; EP2843116A1; CN105492683A; EP2843117A1; CN105518206A; AU2014314500B2; EP2843115A1; CN105492684A; CN106087364A; US11053632B2; WO2015028228A1; WO2015028231A1; WO2015028229A1; WO2015028227A1

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