

Title (en)
Rotary-drum laundry dryer

Title (de)
Waschmaschine mit Drehtrommel

Title (fr)
Sèche-linge à tambour rotatif

Publication
EP 2631352 A1 20130828 (EN)

Application
EP 12157171 A 20120227

Priority
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Abstract (en)
Rotary-drum laundry dryer (1) comprising an outer casing (2) having a front wall (2a) and a rear wall (2b), a substantially cylindrical, sleeve-shaped rotatable drum (3) which is structured for housing the laundry to be dried and is fixed in axially rotating manner inside the casing (2), and a hot-air generator (6) structured to circulate a stream of hot air through the rotatable drum (3); said rotatable drum (3) comprising a substantially cylindrical, tubular body (3) having its front rim (3f) coupled in axially rotating manner to the front wall (2a) of the casing (2) and its rear rim (3r) coupled in substantially airtight and axially rotating manner to the rear wall (2b) of the casing (2) with the interposition of a rear circular sealing gasket (10); the rotary-drum laundry dryer (1) being characterized in that the rear wall (2b) of the casing (2) comprises: a substantially vertically-oriented supporting bulkhead (12), and a lid or cover (13) which is made of plastic material and is fixed in substantially airtight manner to the supporting bulkhead (12) so as to form, together with said supporting bulkhead (12), an inner cavity (15) which is fluidly connected to the hot-air generator (6) so as to receive said stream of hot air; the lid or cover (13) being furthermore shaped so that the peripheral border (12a) of the lid or cover completely surrounds the rear rim (3r) of the tubular body (3), and a central portion (13c) of the lid or cover (13) being permeable to air so that the stream of hot air is allowed to cross the lid or cover (13) and flow from the inside of the tubular body (3) to the inner cavity (15) or vice versa; the rear wall (2b) of the casing (2) moreover comprising a substantially cylindrical gasket-supporting collar (16) which has a nominal diameter greater than that of the rear rim (3r) of the tubular body (3), is realized in one piece with said lid or cover (13) and is arranged on the lid or cover (13) so as to be substantially coaxial to the rear rim (3r) of said tubular body (3).

IPC 8 full level
D06F 58/04 (2006.01)

CPC (source: EP US)
D06F 58/04 (2013.01 - EP US)

Citation (search report)
• [E] EP 2423375 A1 20120229 - ELECTROLUX HOME PROD CORP [BE]
• [A] US 5127169 A 19920707 - ELLINGSON DAVID I [US]
• [A] US 4669200 A 19870602 - CARR KEITH E [US]
• [A] DE 102006014871 A1 20061005 - LG ELECTRONICS INC [KR]

Cited by
EP4050150A1; CN114960149A

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