

Title (en)
Clothes tumble dryer

Title (de)
Wäschetrockner

Title (fr)
Sèche-linge

Publication
EP 1936022 A1 20080625 (EN)

Application
EP 06126975 A 20061222

Priority
EP 06126975 A 20061222

Abstract (en)
Clothes tumble dryer comprising a closed-loop drying-air circuit adapted to circulate heated drying air through a rotating drum, an air-cooled condenser (2) adapted to remove moisture from the hot moisture-laden drying air exiting the drum, an open-loop cooling-air circuit adapted to circulate through the air-cooled condenser (2) a stream of cooling air taken in from the outside ambient to cool said condenser, and to let out the stream of cooling air again into the outside ambient, lint retaining and collecting arrangements being provided to remove the fluff from the flow of drying air, wherein the closed-loop drying-air circuit includes an air passage (4) provided with an inflow aperture (5) fluidly connected to the drum, an outflow aperture (6) fluidly connected to the air-cooled condenser (2), and an airflow deflecting surface (7) adapted to deflect and convey the air entering through the inflow aperture (5) towards the outflow aperture (6); the lint retaining and collecting arrangements comprise water delivery means (8) adapted to provide water at an upper portion of the airflow deflecting surface (7) for causing a water film or curtain (9) to flow down along the airflow deflecting surface (7), so that the flow of drying air is adapted to impinge against and move along with the water curtain (9) and the latter is adapted to trap and retain the fluff, and further comprise drain means (10) adapted to collect the fluff-laden water at a lower portion of the airflow deflecting surface (7).

IPC 8 full level
D06F 58/22 (2006.01)

CPC (source: EP US)
D06F 58/22 (2013.01 - EP US); **D06F 58/24** (2013.01 - EP US)

Citation (search report)
• [YA] EP 0789105 A1 19970813 - CANDY SPA [IT]
• [YA] EP 0548386 A1 19930630 - ZANKER GMBH [DE]
• [A] EP 1669487 A1 20060614 - LG ELECTRONICS INC [KR]
• [A] DE 3738031 A1 19890518 - BOSCH SIEMENS HAUSGERAETE [DE]

Cited by
DE102012223777A1; KR101033529B1; DE102010002661A1; ITTO20120611A1; EP2684995A1; EP2157231A1; CN112575498A; DE102009047155A1; CN102666966A; ITMI20091806A1; DE102008041998A1; EA017943B1; DE102012209826A1; EP2719819A1; DE102013212338A1; DE102014115440A1; DE102010031459A1; US8104191B2; DE102009002076A1; US2012005914A1; CN102791920A; DE102011089112A1; EP2314758A1; US9702080B2; US9347171B2; US10145056B2; DE102009002389A1; CN102395727A; EA018642B1; EP2787117A3; CN110367696A; WO2010028992A1; WO2010118939A1; WO2016123906A1; WO2011157560A1; WO2011064161A1; US8984767B2; EP2138627A1; US8079157B2; US11821135B2; EP2204487A1; WO2010076005A1; US8438750B2; US9512554B2; US8276293B2; US9447535B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1936022 A1 20080625; RU 2007147961 A 20090627; RU 2436879 C2 20111220

DOCDB simple family (application)
EP 06126975 A 20061222; RU 2007147961 A 20071221