

Title (en)  
HOUSEHOLD DISHWASHING MACHINE

Title (de)  
HAUSHALTGESCHIRRSPÜLMASCHINE

Title (fr)  
MACHINE DE LAVAGE DE VAISSELLE MÉNAGÈRE

Publication  
**EP 3094230 A1 20161123 (EN)**

Application  
**EP 15705705 A 20150115**

Priority  
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• IB 2015050303 W 20150115

Abstract (en)  
[origin: WO2015107474A1] A dishwashing machine has a load-bearing structure that comprises a base supporting a washtub (3), there being articulated to the load-bearing structure a front door (4) of the washtub (3), the machine (1) moreover having a system for extraction of damp air from the tub (3), which comprises a fan (7) and a discharge duct (8) having a hollow body (9) with a width dimension and a height dimension. The fan (7) is a radial fan having a fan housing (7a), housed in which is a centrifugal impeller (7b), and the discharge duct (8) has an inlet portion (10) and an outlet portion (11). The intake mouth (7c) of the fan (7) is in fluid communication with an outlet opening (15) of the tub (3), the inlet portion (10) of the discharge duct (8) is in fluid communication with the delivery (7d) of the fan (7) and the outlet portion (11) of the discharge duct (8) is at the front of the machine (1). The discharge duct (8) has a portion (12) intermediate with respect to the inlet and outlet portions (10, 11) having a height (H) that decreases towards the outlet portion (11) and a width (W) that increases towards the outlet portion (11). At least the outlet portion (11) and the intermediate portion (12) of the discharge duct (8) extend over an upper wall (3a) of the tub (3), with the outlet portion (11) above an upper edge of the door (4). The outlet opening (15) is formed in one of the upper wall (3a) and a stationary side wall (3c) of the tub (3), with the fan housing (7a) that is mounted on the aforesaid wall with the respective intake mouth (7c) that is at the outlet opening (15) and is substantially coaxial thereto. The damp air is drawn in from the outlet opening (15) substantially in the direction of the axis (A) of the impeller (7b) and forced in a radial direction into the discharge duct (8), and then expelled from the outlet portion (11) at the front of the machine (1) above the upper edge of the door (4).

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