

Title (en)
A REFRIGERATION APPLIANCE EQUIPPED WITH A FAN SYSTEM

Title (de)
KÜHLGERÄT MIT EINEM GEBLÄSESYSTEM

Title (fr)
APPAREIL DE RÉFRIGÉRATION ÉQUIPÉ D'UN SYSTÈME DE VENTILATEUR

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Application
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Abstract (en)
The invention relates to a refrigeration appliance (1) comprising at least one compartment (10) for receiving food items and a refrigeration system (30) for cooling down air and a fan system (150) for conveying the cooled air to said least one compartment (10). The fan system (150) comprises a fan (72) comprising a rotor (82) rotating in a direction of rotation (D) around a rotation axis (Z), at least a first duct (40a-40g) and at least a second duct (40a-40g) arranged around said fan (72) for the conveyance of the air expelled by said fan (72) towards said at least one compartment (10). The first duct (40a-40g) and the second duct (40a-40g) are joined at a partition wall (40.1-40.5); wherein, by considering a reference plane that is orthogonal to the rotation axis (Z) of the rotor (82) and by considering an orthogonal coordinate system wherein:- the origin (01-05) is the closest point of the partition wall (40.1-40.5) to the rotation axis (Z);- Y-axis is the line laying in the reference plane and drawn from the rotation axis (Z) towards the origin (01-05);- X-axis is the line laying in the reference plane and drawn from the origin (01-05) and perpendicular to the Y-axis; at least a portion of the cross-section of the partition wall (40.1-40.5) in the reference plane shows a concave upward curve (44b-44f) while moving from the origin (01-05) towards positive values of the X-axis following the direction of rotation (D) of the rotor (82).

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Citation (search report)

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