

Title (en)
CONVECTION HEATING DEVICE FOR A COOKING OVEN

Title (de)
KONVEKTIONSHEIZUNGSVORRICHTUNG FÜR ÖFEN

Title (fr)
DISPOSITIF DE CHAUFFAGE PAR CONVECTION POUR UN FOUR

Publication
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Application
EP 16175624 A 20160622

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Abstract (en)
[origin: EP3109558A1] The present invention relates to a convection heating device for an oven cavity (10) of a cooking oven, wherein said convection heating device is arrangeable or arranged at a rear wall (12) of the oven cavity (10). The convection heating device comprises a radial fan (16), at least one heating element (18) and a fan cover (14), wherein the radial fan (16) and the heating element (18) are arrangeable or arranged between the fan cover (14) and the rear wall (12) of the oven cavity (10). At least one main plane of the fan cover (14) extends parallel to the rear wall (12) in the mounted state of said fan cover (14). The fan cover (14) comprises an inlet section (20) arranged in a central portion of said fan cover (14). The inlet section (20) includes a plurality of holes and/or slots. The fan cover (14) comprises an outlet section (22) arranged in an outer portion of said fan cover (14). The outlet section (22) includes a number of cut-outs. The inlet section (20) and outlet section (22) are arranged in the main plane of the fan cover (14). The fan cover (14) comprises a side wall (28) enclosing a border of said fan cover (14) and extending rearwards from the main plane of said fan cover (14). The cut-outs of the outlet section (22) have longitudinal shapes. The longitudinal axes of the cut-outs of the outlet section (22) are inclined with respect to reference axes perpendicular to radial directions originating from the centre of the fan cover (14), so that the longitudinal axes of the cut-outs are arranged perpendicular to the directions of airflows arriving at said cut-outs. At least one cut-out of the outlet section (22) comprises a deflecting plate (24) extending rearwards from that longitudinal side of said cut-out, which is the closest longitudinal side to the centre of the fan cover (14).

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