

Title (en)  
OVEN DOOR AND METHOD OF CLEANING THE SAME

Title (de)  
OFENTÜR UND VERFAHREN ZU DEREN REINIGUNG

Title (fr)  
PORTE DE FOUR ET SON PROCÉDÉ DE NETTOYAGE

Publication  
**EP 4145049 A1 20230308 (EN)**

Application  
**EP 21195307 A 20210907**

Priority  
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Abstract (en)  
The present invention relates to an oven door (10), which has a window allowing a user to view the contents of an oven during cooking, wherein the window has a two-layer design, comprising a first window element (12), and a second window element (14) which is arranged substantially parallel to and spaced apart from the first window element (12), forming a cavity (16) therebetween. The cavity (16), which contains air, improves the thermal insulation of the window, but the window is liable to become dirty with trapped food particles, spilt cooking liquids and the like, which are accidentally introduced into the cavity (16) via air vents (18a, 18b). In order to solve this problem, the invention provides the oven door (10) with a cleaning member (22) which is movable within the cavity (16) and in contact with the surfaces of the first and second window elements (12, 14) that are inside the cavity (16), to wipe these surfaces clean. The cleaning member (22) is mechanically coupled to a driving mechanism (20), which comprises a substance which expands on heating by the oven and contracts back to its original size on cooling back down. Thus whenever the oven is used for cooking, the substance expands, and the driving mechanism (20) provides a motive force to the cleaning member (22) which is derived from the expansion of the substance. The surfaces of the first and second window elements (12, 14) within the cavity are therefore cleaned by the movement of the cleaning member (22). The invention also provides an oven comprising an oven door having such a cleaning mechanism, and a corresponding method of cleaning an oven door. The invention has the advantage that it requires no source of electrical power, such as a motor, and is caused to operate by the heat of the oven alone.

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US 2013055516 A1 20130307 - WANG SONG-HAO [US]

Citation (search report)  
• [Y] JP S62217022 A 19870924 - SHARP KK  
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