

Title (en)  
A GAS APPLIANCE AND A CONTROL METHOD THEREOF

Title (de)  
GASGERÄT UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)  
APPAREIL À GAZ ET SON PROCÉDÉ DE COMMANDE

Publication  
**EP 4116624 A1 20230111 (EN)**

Application  
**EP 22177178 A 20220603**

Priority  
TW 110124809 A 20210706

Abstract (en)  
A gas appliance (1, 2, 3, 4, 5, 6, 7) comprises a combustion device (10, 26), an ignitor (12), a gas valve (14, 30), a blower (16, 32), a detecting device (34), and a control device (20, 36). A control method thereof comprises: the control device (20, 36) is operated in a detection mode in which the control device (20, 36) controls the ignitor (12) to ignite and controls the gas valve (14, 30) as well as the blower (16, 32) to provide a fixed gas flow and a fixed air flow to the combustion device (10, 26). After igniting the flames, the control device (20, 36) determines burning states detected by the detecting device (34); if matching a first state, the control device (20, 36) controls the gas valve (14, 30) and the blower (16, 32) in correspondence to a first control data of the first natural gas; if matching the second state, the control device (20, 36) controls the gas valve (14, 30) and the blower (16, 32) in correspondence to a second control data of the second natural gas. In this way, the gas appliance (1, 2, 3, 4, 5, 6, 7) is suitable for natural gas with various heating values.

IPC 8 full level  
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Citation (search report)  
• [X] EP 1522790 A2 20050413 - VAILLANT GMBH [DE]  
• [A] WO 2019170309 A1 20190912 - EBM PAPST LANDSHUT GMBH [DE]  
• [A] US 8904971 B2 20141209 - HUANG CHUNG-CHIN [TW], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

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