

Title (en)

METHOD AND APPARATUS TO CALIBRATE A VALVE OF A GAS BOILER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KALIBRIERUNG EINES VENTILS EINES GASBOILERS

Title (fr)

PROCÉDÉ ET APPAREIL POUR ÉTALONNER UNE SOUPAPE D'UNE CHAUDIÈRE À GAZ

Publication

EP 3376503 A1 20180919 (EN)

Application

EP 18161857 A 20180314

Priority

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- IT 201700108941 A 20170928

Abstract (en)

Method to calibrate a valve of a gas boiler, the valve (2) having at least one movable calibration element (2a, 2b) in which boiler operating parameters are measured by means of measuring instruments (5), at least one 3D image of the valve (2) is acquired through an optical acquisition means (12), orientation and position of the calibration element (2a, 2b) are identified from the 3D image, a motor-driven tool (13a, 13b), which is couplable to the calibration element (2a, 2b), is moved through an anthropomorphic robot (8) along a path ending with the coupling between the tool (13a, 13b) and the calibration element (2a, 2b) and calculated based on position and orientation of the calibration element (2a, 2b), and the tool (13a, 13b) is operated to adjust the calibration element (2a, 2b) based on the measured parameter so as to carry out an adjustment cycle of the calibration element (2a, 2b).

IPC 8 full level

G12B 13/00 (2006.01)

CPC (source: EP)

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Citation (search report)

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- [A] EP 1750058 A2 20070207 - MERLONI TERMOSANITARI SPA [IT]
- [A] US 2016224858 A1 20160804 - CHEN ZHICHAO [US]
- [A] US 2016288280 A1 20161006 - LIN YHU-TIN [US], et al

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