

Title (en)
Cam gas tap with a plug and integrated cam for domestic cooking appliances

Title (de)
Nockengashahn mit Kücken und integriertem Nocken für Haushalts-Kochgeräte

Title (fr)
Valve de came avec pointeau et came intégrée pour appareils de cuisson domestiques

Publication
EP 2827060 A1 20150121 (EN)

Application
EP 14164323 A 20140411

Priority
TR 201308805 A 20130719

Abstract (en)
The invention relates to a new gas control system enabling the gas taps used in domestic cooking appliances to be touch controlled by the user and to a gas tap having a male (1.2) with an integrated cam that operates simultaneously with said system. The tap according to the invention mainly consists of a gear driven by an internal servo motor, a transmission gear connected to said gear, and a male (1.2) that operates simultaneously with said gear and thus controls gas passage. Said male has an integrated cam system and enables the cam to move the shuttle inside the system; and with the movement of the shuttle, the safety valve inside the system is pushed. Thus, gas passage is allowed. The gears provided in the newly designed tap provide a full transmission rate and transmit the angular movement provided by the motor to the male provided inside the tap, thereby allowing the male to rotate in the same angular rate (i.e. angle factor). When said cam gas tap integrated with the male is connected to gas control system, double safety is achieved. That is, when burning out occurs due to external factors (wind, spilling of food, etc.) in the burner, the flame holder detecting that transfers this information to both safety valve and electronic card.

IPC 8 full level
F23N 1/00 (2006.01); **F16K 27/06** (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP)
F23N 1/007 (2013.01); **F23N 5/00** (2013.01); **F23N 2235/24** (2020.01)

Citation (applicant)
• EP 2273678 A2 20110112 - ELECTROLUX PROFESSIONAL AG [CH]
• WO 2006128831 A1 20061207 - ELECTROLUX HOME PROD CORP [BE], et al
• US 2002045142 A1 20020418 - REPPER PIERRE P [CA], et al
• EP 1909029 A2 20080409 - ORKLI S COOP LTDA [ES]
• EP 2023044 A1 20090211 - MONDRAGON COMPONENTES S COOP [ES], et al

Citation (search report)
• [X] GB 2327749 A 19990203 - VALOR LTD [GB]
• [XY] GB 2381849 A 20030514 - CONCENTRIC CONTROLS LTD [GB]
• [XYI] US 2010282325 A1 20101111 - CIMINO OTTAVIO [AU]
• [XI] EP 0486796 A1 19920527 - IMIT SPA [IT]
• [X] DE 102006032020 A1 20080124 - HEATEC THERMOTECHNIK GMBH [DE]
• [XP] EP 2708816 A2 20140319 - TURAS GAZ ARMATUERLERI SANAYI VE TICARET A S [TR]

Citation (examination)
DE 1529046 A1 19691023 - HONEYWELL GMBH

Cited by
EP3182005A1; CN108443556A; CN108413100A; CN108799566A; EP3412970A1

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

DOCDB simple family (publication)
EP 2827060 A1 20150121

DOCDB simple family (application)
EP 14164323 A 20140411