

Title (en)
Impact-absorbing system in taps having electromagnet

Title (de)
Stoßabsorptions in Taps mit Elektromagnet

Title (fr)
Absorbant les chocs du système dans les robinets avoir électroaimant

Publication
EP 2873918 A1 20150520 (EN)

Application
EP 14164322 A 20140411

Priority
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Abstract (en)
The invention relates to a spring and pin which will be used for absorbing impacts or pressures that are likely to occur in the electromagnet in case the tap shaft is fully pressed within gas taps having electromagnet which are used in domestic cooking appliances. The spring according to the invention can be located in different places within the body, wherein it is characterized by being concentric with other springs within the system, and by protecting the system by absorbing excessive loads applied from outside starting from the position when the electromagnet is fully pressed. Gas taps having a electromagnet which are used today generally consist of a body having gas passageways; a plug regulating gas passageways; a handle enabling the user to locate gas passageways; a electromagnet for opening/closing gas passageway; together with a pin transferring the movement from the handle to the electromagnet; a union fixing the electromagnet in the housing thereof within the tap; and a cover protecting the tap against external factors. However, in these systems, pressure is applied when the user presses the handle too hard, which, in turn, creates impact effect in the electromagnet and may prevent the system from operating safely. With the present invention, a third spring, in addition to the other springs, one of which enables the o-ring inside the plug to remain in the corresponding housing and the handle to permanently remain inside the cover, and the other one of which allows the gasket to move, will be used; and thanks to this third spring, the system will be protected against excessive load. Moreover, a new handle and pin designed in a way suitable for the system are used, instead of the conventional pin and handle used in the current state, according to what place the spring will be located in the system according to the invention.

IPC 8 full level
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CPC (source: EP)
F23K 5/147 (2013.01); **F23N 1/005** (2013.01)

Citation (applicant)
• EP 0805310 A1 19971105 - FAGOR S COOP [ES]
• ES 2359975 T3 20110530 - COPRECITEC SL [ES]

Citation (search report)
• [X] US 2004094199 A1 20040520 - HARNEIT UWE [US]
• [X] EP 1672279 A1 20060621 - FAGOR S COOP [ES]
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• [X] EP 1909029 A2 20080409 - ORKLI S COOP LTDA [ES]
• [X] EP 1001219 A1 20000517 - AGT GAS TECH GMBH [DE]

Cited by
EP3376064A1; EP3412971A1

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