

Title (en)
FLOW RATE REGULATOR UNIT FOR AEROSOL CONTAINER, FLOW RATE REGULATOR MECHANISM FOR AEROSOL CONTAINER, AND AEROSOL-TYPE PRODUCT

Title (de)
DURCHFLUSSREGLEREINHEIT FÜR AEROSOLBEHÄLTER, DURCHFLUSSREGLERMECHANISMUS FÜR AEROSOLBEHÄLTER UND AEROSOLARTIGES PRODUKT

Title (fr)
UNITE DE REGULATION DE DEBIT POUR CONTENEUR D'AEROSOL, MECANISME DE REGULATION DE DEBIT POUR CONTENEUR D'AEROSOL, ET PRODUIT DE TYPE AEROSOL

Publication
EP 1818279 A4 20080723 (EN)

Application
EP 05790530 A 20051004

Priority
• JP 2005018348 W 20051004
• JP 2004295410 A 20041007

Abstract (en)
[origin: EP1818279A1] There is provided a novel flow rate regulator mechanism of the type where an external flow rate regulator unit for regulating a change in gas pressure in an aerosol container is mounted between a housing and a suction pipe. The flow regulator unit 10 is mounted between the housing 41 and the suction pipe 42. A time ratio of an inlet part A, that serves as a part of passage of a content in the container, being opened is smaller as pressure of compressed gas is higher like the compressed gas at an initial stage of its use. In a stationary mode where pressure of the passage of a content is uniform, a flow rate adjusting valve 14 moves upward against a spring 15 with the aid of the uniform pressure to substantially close the inlet part A. In an actuation mode, a content in a downstream side space region of the inlet part A is first discharged to lower pressure there, so that the flow rate adjusting valve 14 moves down by the action of the spring 15 to open the inlet part A. Immediately after, the content flows into the downstream side space region to raise the pressure, the flow rate adjusting valve 14 moves upward to again substantially close the inlet part A..

IPC 8 full level
B65D 83/44 (2006.01); **B05B 9/04** (2006.01)

CPC (source: EP US)
B65D 83/44 (2013.01 - EP US)

Citation (search report)
• [X] EP 0916596 A1 19990519 - TOYO AEROSOL IND CO [JP]
• [X] EP 0796804 A2 19970924 - SOFT99 CORP [JP], et al
• [X] GB 1603971 A 19811202 - METAL BOX CO LTD
• See references of WO 2006038615A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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