

Title (en)
Portable humidifier

Title (de)
Tragbarer Befeuchter

Title (fr)
Humidificateur portable

Publication
EP 2767774 A1 20140820 (EN)

Application
EP 14154633 A 20140211

Priority
KR 20130001198 U 20130218

Abstract (en)
The present device deploys a portable humidifier (1) of utilizing mineral water bottles or thermos containing mineral water. The present device is characterized by having an ultrasonic vibrator (10), a circuit part (11) to generate ultrasonic waves, USB connector (12) to supply electric power in connection to the circuit part (11), and a water-supply bottle joint (21), which the said ultrasonic vibrator (10) and circuit part (11) are installed at the inside of and connects a mineral water bottle or a thermo, and a main body (2) in which a water-supply part can be installed and spray holes (22) are formed, but the said water supply part consists of a circular filter (31), which supplies moisture by contacting its top with the bottom of the ultrasonic vibrator (10), and a support pipe (33), at the top of which a flange part (32) is formed for insertion/connection to a raised spot formed on the inner bottom of the main body, while accommodating the circular filter (31), a through hole (35) is drilled into the support pipe (33) to connect an auxiliary water-supply filter (4) or a large and short circular filter by forming a stopper, the said ultrasonic vibrator (10) forms many perforated micro-holes (10a) to pass the moisture supplied from the circular filter (31) contacted with the bottom and spray it at the same time, and in order to make the appearance beautiful, lighting LED (11a) might be installed at the said circuit part (11), and ornamental caps (5) and ornamental auxiliary materials (6) might be installed at the top of the said main body (2).

IPC 8 full level
F24F 6/12 (2006.01); **B05B 15/06** (2006.01); **B05B 15/65** (2018.01)

CPC (source: EP US)
B05B 15/65 (2018.01 - EP US); **B05B 17/0646** (2013.01 - EP US); **B05B 17/0684** (2013.01 - EP); **F24F 6/12** (2013.01 - EP US); **F24F 2006/006** (2013.01 - EP US); **F24F 2221/12** (2013.01 - EP US); **F24F 2221/38** (2013.01 - EP US)

Citation (search report)
• [XYI] JP 3175717 U 20120524
• [Y] US 5135427 A 19920804 - SUTO SHOHEI [JP], et al
• [A] KR 20110090315 A 20110810 - PSI CO LTD [KR]

Cited by
FR3028774A1; EP3085393A1; GB2539087B; DE202024000881U1; WO2016083206A1

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 2767774 A1 20140820; KR 200470848 Y1 20140116; KR 20130007210 U 20131217; US 2014232022 A1 20140821

DOCDB simple family (application)
EP 14154633 A 20140211; KR 20130001198 U 20130218; US 201414146121 A 20140102