

Title (en)
ATOMIZING CORE AND ATOMIZER OF ULTRASONIC ELECTRONIC CIGARETTE

Title (de)
ZERSTÄUBUNGSKERN UND ZERSTÄUBER FÜR EINE ELEKTRONISCHE ULTRASCHALLZIGARETTE

Title (fr)
NOYAU D'ATOMISATION ET ATOMISEUR DE CIGARETTE ÉLECTRONIQUE ULTRASONORE

Publication
EP 3656230 A4 20210512 (EN)

Application
EP 18855598 A 20180918

Priority
• CN 201721193948 U 20170918
• CN 201721193301 U 20170918
• CN 201721192781 U 20170918
• CN 2018106184 W 20180918

Abstract (en)
[origin: EP3656230A1] Disclosed are an ultrasonic electronic cigarette atomization core and an ultrasonic electronic cigarette atomizer. The atomization core comprises a housing (1), a front cover (2), an ultrasonic atomization sheet (3), a liquid storage cotton (4), and a liquid guide cotton (5), the housing (1) and the front cover (2) are fastened together to form a receiving cavity (6), the atomization sheet (3) is fixed in the receiving cavity (6), a liquid storage ring (7) is disposed in the receiving cavity (6), the liquid storage cotton (4) is disposed in the liquid storage ring (7) and connected to the atomization sheet (3) through the liquid guide cotton (5), and the outer lateral surface of the liquid storage cotton (4) is communicated with a liquid bin (42); and the atomization core further comprises a position-limit mechanism for preventing the liquid storage cotton (4) from falling off the liquid storage ring (7). The liquid storage cotton (4) is unlikely to fall off and reliably conducts electricity; the housing (1) and the front cover (2) are fixed securely, so the operation is stable, the amount of smoke is stable, and the assembly is convenient; tobacco tar leakage can be prevented after the atomization core is pulled out; the opening and closing of a liquid passing hole (421), the opening and closing of an air outlet passage, and the unlocking and locking of the atomization core can be controlled by means of the opening and closing of the liquid injection holes (422, 391, 361) in a linked manner; when tobacco tar is injected into the liquid bin (42), the liquid passing hole (421) is closed and the air outlet passage is cut off, so that the leakage of tobacco tar or immersion in tobacco tar is avoided, the atomizer is clean and sanitary, waste is avoided, and the cost is saved; the operation is simple, the atomization core is convenient to replace, the injection of the tobacco tar is convenient, and the user experience is good.

IPC 8 full level
A24F 15/015 (2020.01); **A24F 40/05** (2020.01); **A24F 40/10** (2020.01); **A24F 40/485** (2020.01)

CPC (source: EP US)
A24F 40/05 (2020.01 - EP US); **A24F 40/485** (2020.01 - EP US); **A24F 15/015** (2020.01 - EP US); **A24F 40/10** (2020.01 - EP US)

Citation (search report)
• [A] CN 206119183 U 20170426 - CHINA TOBACCO HUNAN IND CO LTD
• [A] CN 206303211 U 20170707 - CHINA TOBACCO HUNAN IND CO LTD
• [A] CN 205962833 U 20170222 - CHINA TOBACCO HUNAN IND CO LTD
• [A] CN 206079040 U 20170412 - CHINA TOBACCO HUNAN IND CO LTD
• See references of WO 2019052574A1

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

DOCDB simple family (publication)
EP 3656230 A1 20200527; **EP 3656230 A4 20210512**; **EP 3656230 B1 20220511**; WO 2019052574 A1 20190321

DOCDB simple family (application)
EP 18855598 A 20180918; CN 2018106184 W 20180918