

Title (en)

DISPENSER FOR THE CONTROLLED RELEASE OF VOLATILE SUBSTANCES

Title (de)

SPENDER ZUR KONTROLLIERTEN FREISETZUNG FLÜCHTIGER SUBSTANZEN

Title (fr)

DIFFUSEUR PERMETTANT UNE LIBERATION CONTROLEE DE SUBSTANCES VOLATILES

Publication

EP 1560607 A2 20050810 (DE)

Application

EP 03795797 A 20031023

Priority

- DE 10252950 A 20021114
- EP 0311728 W 20031023

Abstract (en)

[origin: WO2004043201A2] The invention relates to a dispenser for a volatile substance (4), which contains a reservoir (1) and two control elements. The first control element (6) exerts a control function that is dependent on the substance characteristics of the volatile substance (4) and the material characteristics of the constituents of said first control element (6). However, the second control element (7) exerts a control function that is independent of the substance characteristics of the volatile substance (4) and the material characteristics of the constituents of said first control element (6). The first control element (6) is located between the reservoir (1) and the second control element (7) and is permeable to at least one volatile substance (4). The second control element (7) consists of a material that is impermeable to the volatile substance and contains defined material cavities (8). Perfumes, crop protection agents, pheromones and repellents, which can be released in a controlled manner, constitute the volatile substances.

IPC 1-7

A61L 9/12

IPC 8 full level

A01M 1/20 (2006.01); **A01M 29/00** (2011.01); **A01M 29/12** (2011.01); **A01M 29/30** (2011.01); **A01M 99/00** (2006.01); **A61L 9/04** (2006.01); **A61L 9/12** (2006.01)

CPC (source: EP US)

A01M 1/2055 (2013.01 - EP US); **A01M 99/00** (2013.01 - US); **A61L 9/042** (2013.01 - EP US); **A61L 9/046** (2013.01 - EP US); **A61L 9/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2004043201A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004043201 A2 20040527; **WO 2004043201 A3 20040812**; AU 2003298097 A1 20040603; AU 2003298097 B2 20090618; CA 2504242 A1 20040527; CA 2504242 C 20110906; DE 10252950 A1 20040603; DE 10252950 B4 20081113; EP 1560607 A2 20050810; IL 168543 A 20110428; JP 2006506062 A 20060223; JP 4870925 B2 20120208; MX PA05005152 A 20050722; PL 207506 B1 20101231; PL 376776 A1 20060109; RU 2005118758 A 20051120; RU 2342954 C2 20090110; US 2006016905 A1 20060126; US 2014021269 A1 20140123; US 8567693 B2 20131029; ZA 200503281 B 20060726

DOCDB simple family (application)

EP 0311728 W 20031023; AU 2003298097 A 20031023; CA 2504242 A 20031023; DE 10252950 A 20021114; EP 03795797 A 20031023; IL 16854305 A 20050511; JP 2004550703 A 20031023; MX PA05005152 A 20031023; PL 37677603 A 20031023; RU 2005118758 A 20031023; US 201314035393 A 20130924; US 53479703 A 20031023; ZA 200503281 A 20050422