

Title (en)
CIGARETTE

Title (de)
ZIGARETTE

Title (fr)
CIGARETTE

Publication
EP 2856890 B1 20200708 (EN)

Application
EP 12877676 A 20120530

Priority
JP 2012063991 W 20120530

Abstract (en)
[origin: EP2856890A1] A cigarette comprises a tobacco rod and a filter including a filter plug connected to one end of the tobacco rod and a capsule in which contents is held inside a film. The filter plug has a property that a repulsive force increases in accordance with a first increasing rate with an increase of an indentation rate when the indentation rate is equal to or less than a specific value as the filter plug is pressed from outside and the repulsive force increases in accordance with a second increasing rate larger than the first increasing rate with the increase of the indentation rate when the indentation rate becomes larger than the specific value. The capsule is destroyed when the indentation rate of the filter plug is equal to or less than the specific value.

IPC 8 full level
A24D 3/04 (2006.01); **A24D 3/06** (2006.01)

CPC (source: CN EP KR US)
A24D 1/002 (2013.01 - KR); **A24D 3/0216** (2013.01 - KR); **A24D 3/04** (2013.01 - EP US); **A24D 3/048** (2013.01 - CN EP US); **A24D 3/061** (2013.01 - CN EP KR); **A24D 3/063** (2013.01 - KR); **A24D 3/10** (2013.01 - KR)

Citation (opposition)
Opponent : Philip Morris Products S.A.
• US 5186185 A 19930216 - MASHIKO KIMIO [JP], et al
• WO 2008084333 A2 20080717 - PHILIP MORRIS PROD [CH]
Opponent : Philip Morris Products, S.A.
• EP 2805653 A1 20141126 - COMPANIA ESPANOLA DE ELECTROMENAJE SA [ES]
• EP 2805653 B1 20200708 - TAURUS RES AND DEVELOPMENT SLU [ES]
• WO 2014111204 A2 20140724 - MERGENTHALER ANNEMARIE [DE], et al
• WO 2012018965 A2 20120209 - LEGUPRO [US], et al
• EP 1561409 A1 20050810 - VORWERK CO INTERHOLDING [DE]
• US 2009306827 A1 20091210 - KIM HYENG KYUN [KR], et al
• AU 2010330199 A1 20120802 - VORWERK CO INTERHOLDING
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• WO 2008112066 A1 20080918 - VITA MIX CORP [US], et al
• DE 102007031372 A1 20090108 - IT DESIGNERS GMBH [DE]
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• DE 102009059181 A1 20100708 - SEVERIN ELEKTROGERAETE GMBH [DE]
• WO 2007111907 A2 20071004 - DEL GIORNO RALPH J [US]
• ANONYMOUS: "Bus (computing)", WIKIPEDIA, 1 March 2017 (2017-03-01), XP055796808, Retrieved from the Internet <URL:https://web.archive.org/web/20130430021255/https://en.wikipedia.org/wiki/Bus_(computing)>

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US11109618B2; EA034059B1; WO2017036586A1; US10433578B2; US11632984B2; EP2978327B1; EP3311681B1

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 2856890 A1 20150408; EP 2856890 A4 20160323; EP 2856890 B1 20200708; CN 104379005 A 20150225; CN 104379005 B 20171128; EP 3704960 A1 20200909; EP 3704960 B1 20220601; EP 3704960 B8 20220713; EP 3735845 A1 20201111; ES 2821430 T3 20210426; JP 5710838 B2 20150430; JP WO2013179429 A1 20160114; KR 101721741 B1 20170410; KR 101913980 B1 20181031; KR 20150003288 A 20150108; KR 20170036817 A 20170403; PL 2856890 T3 20210125; RU 2591138 C1 20160710; SG 11201407530V A 20150129; TW 201347690 A 20131201; TW I508671 B 20151121; WO 2013179429 A1 20131205

DOCDB simple family (application)
EP 12877676 A 20120530; CN 201280073633 A 20120530; EP 20172337 A 20120530; EP 20182859 A 20120530; ES 12877676 T 20120530; JP 2012063991 W 20120530; JP 2014518160 A 20120530; KR 20147031378 A 20120530; KR 20177007977 A 20120530; PL 12877676 T 20120530; RU 2014153575 A 20120530; SG 11201407530V A 20120530; TW 101150432 A 20121227