

Title (en)
PERFORATING DRUM DEVICE AND PERFORATION DEVICE

Title (de)
PERFORIERWALZENVORRICHTUNG UND PERFORATIONSVORRICHTUNG

Title (fr)
DISPOSITIF DE TAMBOUR DE PERFORATION ET DISPOSITIF DE PERFORATION

Publication
EP 3957191 A4 20230614 (EN)

Application
EP 20790739 A 20200326

Priority

- JP 2019079448 A 20190418
- JP 2020013651 W 20200326

Abstract (en)
[origin: EP3957191A1] A technique is provided by which it is possible, in post-processing, to perforate a cavity in the tip of a tobacco rod in a heated-type tobacco product. This perforating drum is provided with a rotating drum which has a holding part that holds a heated-type tobacco product, a perforation unit which perforates the tobacco rod, and a cam which is provided on a rotating drum base part provided on the rotating drum. The perforation unit comprises a slide rod which is provided on the rotating drum, a perforating slider which has a perforation needle arranged opposite of the tip surface of the tobacco rod and which is slidably held on the slide rod, and a cam follower which is provided on the perforation slider and engages with the cam, and which allows the perforation slider to slide along the slide rod, wherein the cam has an insertion section and a withdrawal section.

IPC 8 full level
A24C 5/01 (2020.01); **A24C 5/32** (2006.01); **A24C 5/60** (2006.01); **A24D 1/20** (2020.01); **A24F 40/20** (2020.01)

CPC (source: EP US)
A24C 5/01 (2020.01 - EP US); **A24C 5/327** (2013.01 - EP); **A24C 5/607** (2013.01 - EP US); **A24D 1/20** (2020.01 - EP US); **A24F 40/20** (2020.01 - EP)

Citation (search report)

- [XAI] DE 2715994 A1 19781012 - HAUNI WERKE KOERBER & CO KG
- [A] US 4870748 A 19891003 - HENSGEN GERHARD [DE], et al
- [A] US 4188847 A 19800219 - PAYNE LESLIE E [US]
- See references of WO 2020213360A1

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 3957191 A1 20220223; **EP 3957191 A4 20230614**; CN 113710106 A 20211126; CN 113710106 B 20230203; JP 7187684 B2 20221212; JP WO2020213360 A1 20201022; US 2022030931 A1 20220203; WO 2020213360 A1 20201022

DOCDB simple family (application)
EP 20790739 A 20200326; CN 202080029601 A 20200326; JP 2020013651 W 20200326; JP 2021514846 A 20200326; US 202117502658 A 20211015