

## Title (en)

UNWINDING, SHREDDING, GATHERING, AND ROD FORMING MECHANISM BASED ON CIGARETTE FILTER MAKING DEVICE

## Title (de)

ABWICKEL-, ZERKLEINERUNGS-, BÜNDELUNGS- UND STABBILDUNGSMECHANISMUS AUF BASIS EINER  
ZIGARETTENFILTERHERSTELLUNGSVORRICHTUNG

## Title (fr)

MÉCANISME DE DÉROULEMENT, DE DÉFIBRAGE, DE COLLECTE ET DE FORMATION DE TIGE BASÉ SUR UN DISPOSITIF DE  
FABRICATION DE FILTRE DE CIGARETTE

## Publication

**EP 3725168 A4 20210310 (EN)**

## Application

**EP 18888293 A 20181212**

## Priority

- CN 201711332027 A 20171213
- CN 2018120454 W 20181212

## Abstract (en)

[origin: EP3725168A1] A sheet-stripping, strip-gathering, rod-forming mechanism based on a cigarette filter forming machine is disclosed. The present invention relates to tobacco processing machines, and more particularly to a sheet-stripping, strip-gathering, rod-forming mechanism based on a cigarette filter forming machine. The mechanism has a set of active roll release device for tobacco sheet roll additionally installed behind releasing rollers of the filter forming machine, which has a linear velocity of the released paper sheet matching a rod-forming linear velocity of the mechanism; a pair of releasing rollers near a pipe is replaced by stripping rollers replacing, with interrupted roller pattern along respective circumference; and a strip-guiding horn-shaped mouth is replaced by a tapered and collapsed horn-shaped mouth with an inlet diameter of 80-120mm. The mechanism is simple in structure and only requires moderate additional costs, while being suited for on-line stripping of tobacco sheet roll that is less tough and fragile, and effective in gathering and forming the strips.

## IPC 8 full level

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## CPC (source: CN EP)

**A24B 7/04** (2013.01 - CN EP); **A24B 7/14** (2013.01 - CN EP); **A24C 5/1828** (2013.01 - CN EP)

## Citation (search report)

- [IA] US 4047536 A 19770913 - ASFOUR EMIL S
- [IA] US 3589373 A 19710629 - HOOPER HARRY ALLISON
- [A] GB 1234786 A 19710609 - GALLAHER LTD [IE]
- [A] GB 1066356 A 19670426 - FREDERICK MOSS
- See also references of WO 2019114727A1

## 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

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CN 107981410 B 20200721; WO 2019114727 A1 20190620

## DOCDB simple family (application)

**EP 18888293 A 20181212**; CN 201711332027 A 20171213; CN 2018120454 W 20181212