No. 771,281. PATENTED OCT. 4, 1904.

H. SMITH.

TOBACCO PLUG CUTTER.

APPLICATION FILED DEC. 11, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

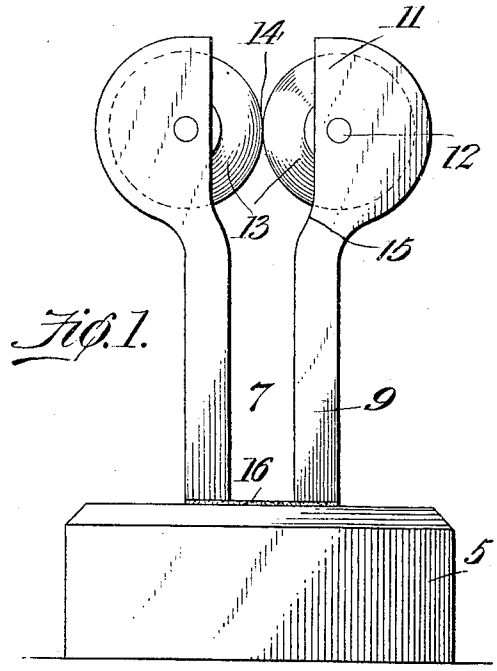


Fig. 1.

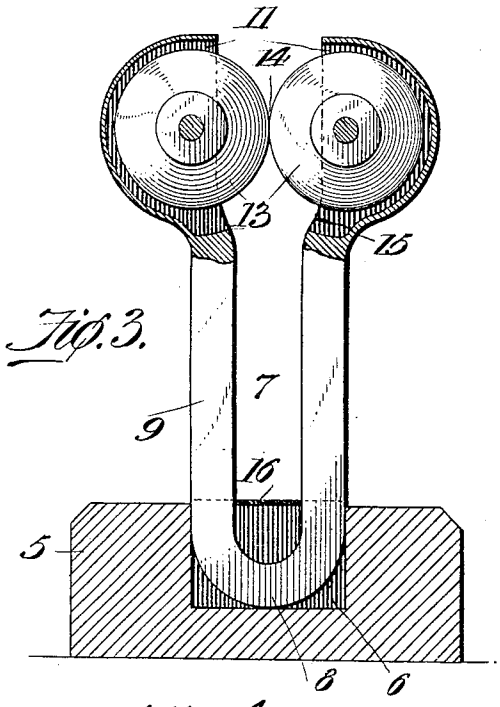


Fig. 3.

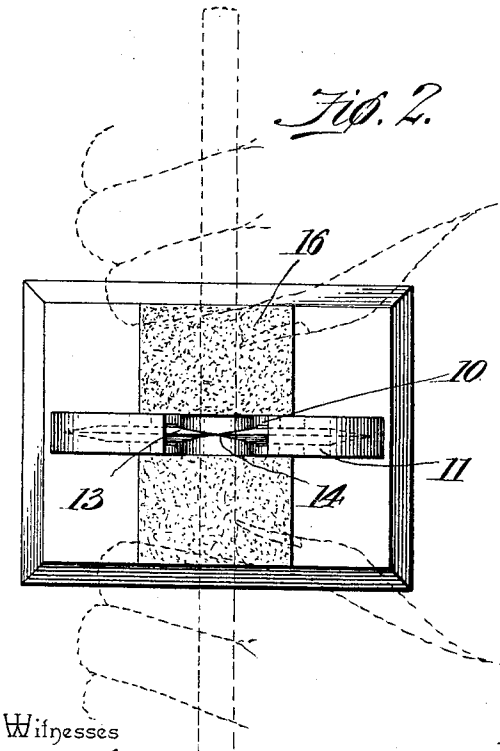


Fig. 2.

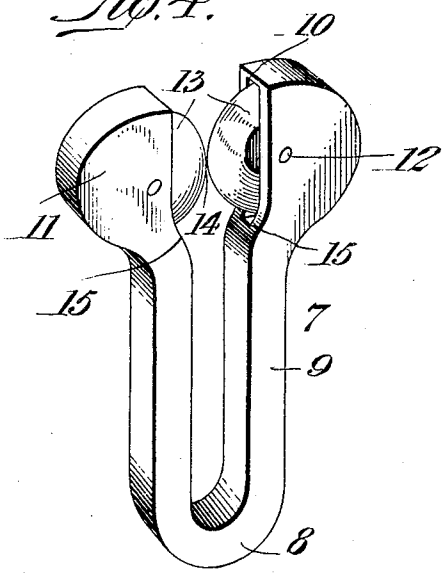


Fig. 4.

Witnesses

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 5.

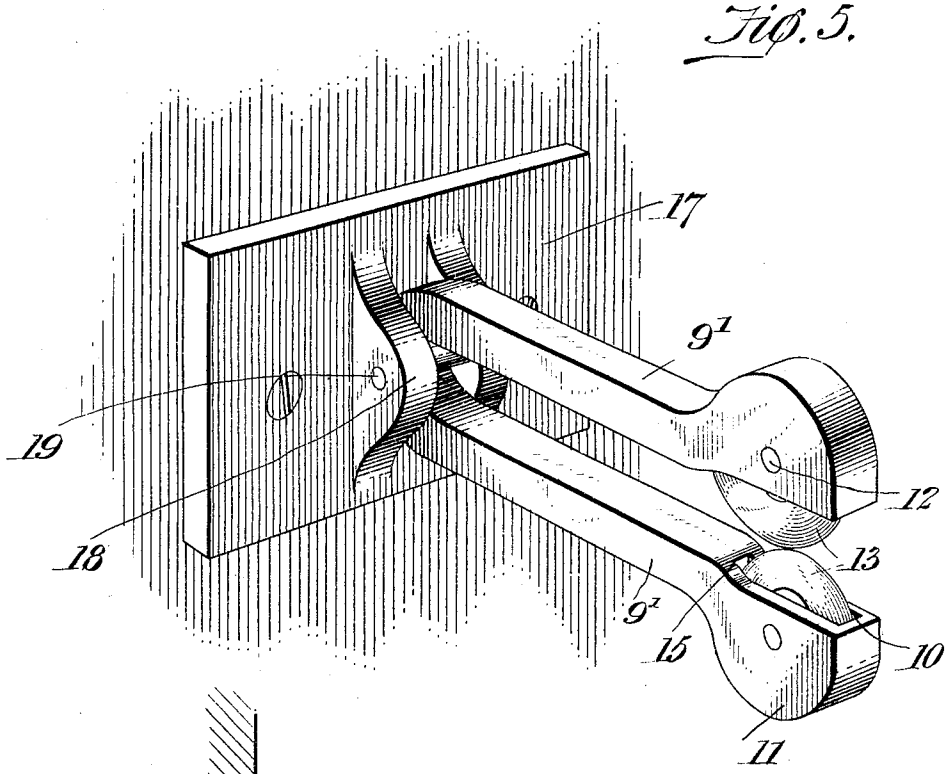
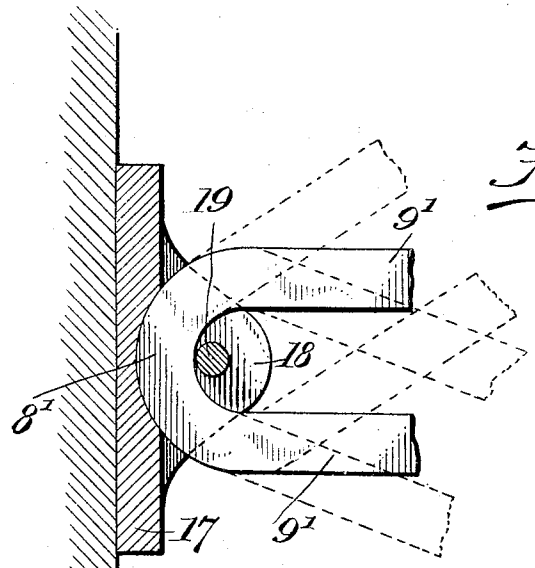


Fig. 6.



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No. 771,281. Patented October 4, 1904.

UNITED STATES PATENT OFFICE.

HENRY SMITH, OF RALEIGH, NORTH CAROLINA, ASSIGNOR OF ONE-HALF TO JOHN I. ROSE AND SIDNEY C. CHAMBERS, OF DURHAM, NORTH CAROLINA.

TOBACCO-PLUG CUTTER.

SPECIFICATION forming part of Letters Patent No. 771,281, dated October 4, 1904.

Application filed December 11, 1903. Serial No. 184,790. (No model.)

To all whom it may concern:

Be it known that I, HENRY SMITH, a citizen of the United States, residing at Raleigh, in the county of Wake and State of North Carolina, have invented a new and useful Tobacco-Plug Cutter, of which the following is a specification.

This invention relates to an improved tobacco-cutter especially designed for cutting plug-tobacco, and has for its object to provide a simple, inexpensive, and efficient device of this character by means of which a bar of tobacco may be quickly and conveniently severed or cut into one or more blocks or plugs of any desired length.

A further object of the invention is to provide a supporting-frame having a pair of cutters rotatably mounted thereon and against which the bar of tobacco is pressed in the act of cutting the same, the downward pressure exerted on the cutters causing the latter to revolve and sever the bar.

A still further object of the invention is to form the supporting-frame of a single piece of metal bent to form a pair of spaced parallel arms which act as guides for the tobacco, permitting the same to be drawn downwardly between the cutters and in contact with the base or cushion.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts in all the figures of the drawings, Figure 1 is a side elevation of a tobacco-cutter constructed in accordance with my invention. Fig. 2 is a top plan view of the cutter, illustrating the manner of using the same. Fig. 3 is a longitudinal sectional view. Fig. 4 is a perspective view of the supporting-frame and cutters detached from the base. Fig. 5 is a perspective view of a modified form of the invention, showing the cutter attached to a wall or fixture. Fig. 6 is a detail vertical sectional view of Fig. 5.

5 designates a preferably rectangular block or base formed of wood, metal, rubber, or other suitable material and provided with a centrally-disposed recess or socket 6, in which is removably mounted the supporting-frame 7. The frame 7, which is preferably cast or forged, is curved, as shown at 8, to form a pair of spaced parallel arms 9, the upper ends of which are bifurcated, as indicated at 10, and formed with housings 11. Journaled in bearings 12, formed in the side walls of the housings 11, are disks or cutters 13, the cutting edges 14 of which are alined and arranged in close proximity to each other, as clearly shown in Fig. 2 of the drawings. The upper ends of the arms 9 are preferably bent laterally, as shown at 15, to expose the cutting edges of the disks 13 and to permit the bar of tobacco or other material to be readily placed in contact therewith when the device is in use.

When the base or block 5, which may be of any desired shape, is formed of metal or other non-yieldable material, I provide a cushion 16, adapted to receive the impact of the tobacco as the same is forced downwardly in contact therewith.

In operation the bar of tobacco is grasped in the hands and pressed downwardly in contact with the disks or cutters, causing said cutters to revolve and sever the tobacco, as clearly shown in Fig. 2 of the drawings. The spaced parallel arms act as guides, permitting the tobacco to be drawn downwardly between the cutters and in contact with the block 5 or cushion 16, as will be readily understood.

In Figs. 5 and 6 of the drawings I have illustrated a modified form of the invention in which the base carrying the supporting-frame and cutters is secured to a wall, fixture, or other suitable support, the bar of tobacco being inserted between the parallel arms 9′ and forced in contact with the disks or cutters by exerting an outward pull thereon. In this case the base 17 is provided with perforated ears

or lugs 18, between which is pivotally mounted the supporting-frame, a pin or rod 19 passing through the perforations in said ears or lugs and engaging the frame at the bend 8′, serving to prevent displacement of the frame and at the same time permitting said frame to be tilted upwardly or downwardly at any angle or inclination to the base, as will be readily understood.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a U-shaped supporting-frame, and a pair of cutters rotatably mounted thereon and having their alined cutting edges arranged in the same longitudinal plane with the frame and disposed at the center thereof.

2. In a device of the class described, a base, and a detachable supporting-frame having a pair of cutting-disks rotatably mounted thereon and arranged in the same longitudinal plane with the frame.

3. In a device of the class described, a base, a supporting-frame, housings carried by the frame, and a pair of cutters rotatably mounted in the housings.

4. In a device of the class described, a base, a supporting-frame comprising a pair of spaced arms having their upper ends bent laterally in opposite directions to form housings, and cutters rotatably mounted in said housings.

5. In a device of the class described, a base provided with a socket or recess, a supporting-frame fitting within said socket or recess, and a pair of cutters rotatably mounted on the supporting-frame.

6. In a device of the class described, a base, a frame formed of a pair of spaced arms having their upper ends bent laterally and thence upwardly to form supporting members, and cutters rotatably mounted on said members.

7. In a device of the class described, a base, a supporting-frame mounted on the base, cutters journaled in the supporting-frame, and a cushion carried by the base and arranged beneath the cutters.

8. In a device of the class described, a base, a supporting-frame pivoted to the base, and a pair of cutters rotatably mounted on the supporting-frame.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HENRY SMITH.

Witnesses:
J. P. ELLIS,
R. J. SMITH.