

(No Model.)

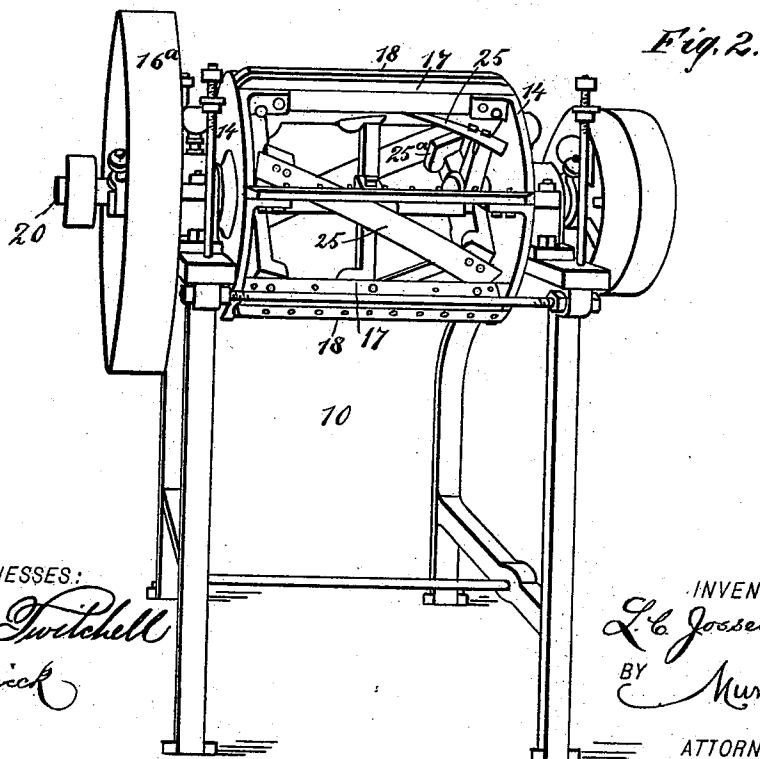
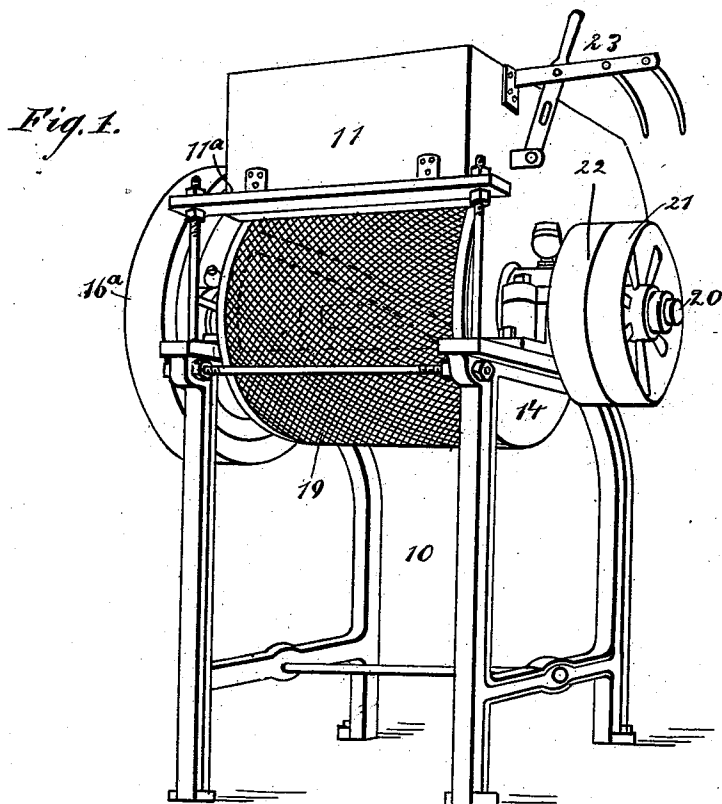
2 Sheets—Sheet 1.

L. C. JOSSELIN.

TOBACCO CUTTING AND SIFTING MACHINE.

No. 506,117.

Patented Oct. 3, 1893.



WITNESSES:

Wm. Twitchell
C. Sedgwick

INVENTOR:

L. C. Josselein
BY *Munn & Co*

ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

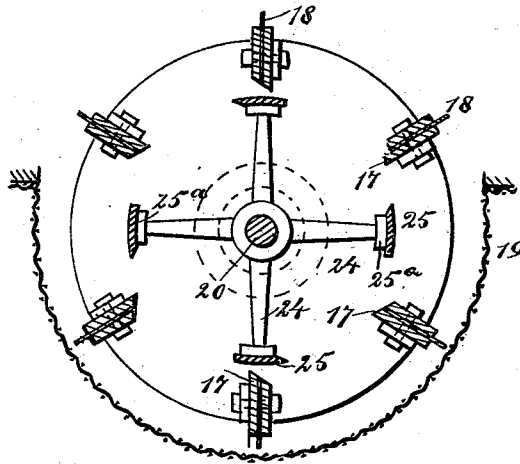


Fig. 4.

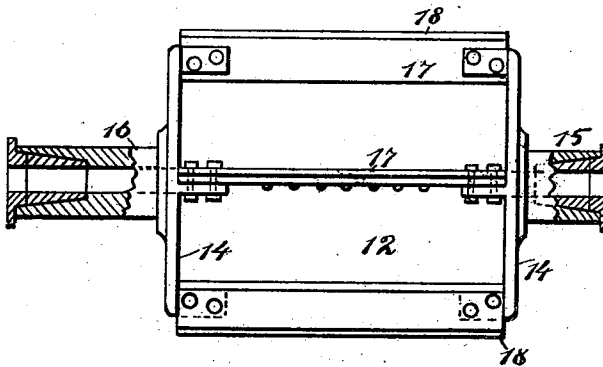
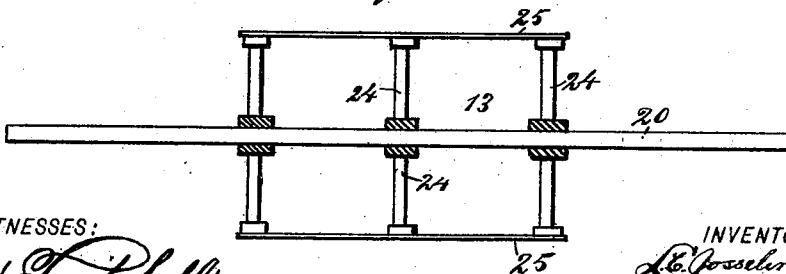


Fig. 5.



WITNESSES:

Donn Twitchell
C. Sedgwick

INVENTOR.

L. C. Joselin
BY Munn & Co
ATTORNEYS

UNITED STATES PATENT OFFICE.

LOUIS CLAUDIUS JOSSELIN, OF MEXICO, MEXICO, ASSIGNOR OF ONE-HALF
TO JOSÉ CASARÉS, OF SAME PLACE.

TOBACCO CUTTING AND SIFTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 506,117, dated October 3, 1893.

Application filed June 7, 1893. Serial No. 476,818. (No model.) Patented in Mexico January 16, 1892, No. 224; in France February 12, 1892, No. 217,376; in England April 14, 1892, No. 7,257; in Germany April 16, 1892, No. 66,134; in Belgium April 30, 1892, No. 99,248; in Spain May 20, 1892, No. 13,190, and in Portugal July 6, 1892, No. 1,697.

To all whom it may concern:

Be it known that I, LOUIS CLAUDIUS JOSSE-
LIN, of Mexico, Mexico, have invented a new
and Improved Tobacco Cutting and Sifting
Machine, (for which Letters Patent have been
5 obtained in Mexico, No. 224, dated January
16, 1892; in Spain, No. 13,190, dated May 20,
1892; in Germany, No. 66,134, dated April 15,
1892; in Portugal, No. 1,697, dated July 6, 1892;
10 in Belgium, No. 99,248, dated April 30, 1892;
in England, No. 7,257, dated April 14, 1892,
and in France, No. 217,376, dated February
12, 1892,) of which the following is a full,
clear, and exact description.

15 My invention relates to improvements in
that class of machines which are adapted to
cut and sift tobacco, and the object of my in-
vention is to produce a machine of simple
construction, which will rapidly cut the to-
20 bacco to any degree of fineness, and which
will thoroughly sift the same.

To this end my invention consists in cer-
tain features of construction and combina-
tion of parts, which will be hereinafter de-
25 scribed and claimed.

Reference is to be had to the accompanying
drawings forming a part of this specification,
in which similar figures of reference indicate
corresponding parts in all the views.

30 Figure 1 is a perspective view of a machine
embodying my invention. Fig. 2 is a per-
spective view, with the hopper and sieve re-
moved. Fig. 3 is a vertical cross section
through the two cutters, with the hopper re-
35 moved. Fig. 4 is a detail longitudinal section
of the exterior cutter; and Fig. 5 is a detail
longitudinal section of the interior cutter.

The machine is provided with a suitable
frame 10, which has a hopper 11 at the top,
40 and the hopper is hinged to a cross bar 11^a,
which is supported above the frame so that
the hopper may be easily tipped back out of
the way when desired.

Mounted in the frame beneath the hopper,
45 are the cutters, comprising an exterior cut-
ter 12 and an interior cutter 13, the exterior
cutter consisting of two end pieces 14 having
projecting hollow trunnions 15 and 16, the
trunnion 16 being adapted to carry a driving

pulley 16^a, the cross knives 17, connecting the 50
outer edges of the two end pieces 14, and the
hackles 18, which project from the outer edges
of the knives and which are adapted to rub
the tobacco through the sieve 19, which sieve
envelops the lower portion of the exterior cut- 55
ter and is suitably secured in the frame. The
cutting edges of the knives 17 are on their in-
ner sides, so that the tobacco will be cut be-
tween them and the knives of the interior
cutter 13. The interior cutter is secured to 60
a shaft 20, which shaft projects through and
turns in the hollow trunnions of the exterior
cutter, and one end of the shaft is provided
with tight and loose pulleys 21 and 22, and
above the pulleys is a shipper 23, which is se- 65
cured to the hopper 11. The interior cutter
13 comprises the radiating arms 24, which are
secured to the shaft 20, the diagonally or spi-
rally-arranged knives 25, and the supports
25^a for the knives, which supports are secured 70
to the outer ends of the cross arms. The di-
ameter of the interior cutter is such that it
will revolve within the exterior cutter, and
the cutters are arranged in relation to each
other so that the edges of the knives in the 75
two cutters will pass closely together, and the
tobacco which is caught between them will
be finely cut.

It is obvious that both the exterior and in-
terior cutters may be provided with any de- 80
sired number of knives, and the fineness of
the tobacco will be governed by the number
of knives and by the speed of the cutters.

To operate the machine, the exterior and in-
terior cutters are revolved in opposite direc- 85
tions, and the tobacco is placed in the hop-
per and allowed to drop through upon the cut-
ters and between the knives. The knives
will cut the tobacco, and the cut tobacco will
fall to the bottom of the sieve 19, and the 90
hackles 18 which revolve with the exterior
cutter, will rub the fine tobacco through the
sieve; but if any of the tobacco is too coarse
to pass through, the hackles will carry it to
the upper portion of the cutter, when it will 95
pass through the knives, and this operation
will be repeated until all the tobacco is finely
cut. I show the hopper located directly above

the cutters, and this is the manner in which I prefer to use it; but it is obvious that the cutters may be charged from either side with the same effect.

5 Having thus described my invention, I claim as new and desire to secure by Letters Patent—

10 1. A machine of the character described, comprising oppositely rotating exterior and interior cutters having adjacent knives, and a sieve exterior to the cutters to sift the cut material, substantially as described.

15 2. A machine of the character described, comprising a revoluble exterior cutter having cross knives with their edges arranged inwardly, a revoluble interior cutter having diagonally-arranged knives with the edges on the outer portions, and a sieve for the cutters, substantially as described.

20 3. A machine of the character described, comprising a revoluble exterior cutter having cross knives with their edges arranged inwardly, a revoluble interior cutter having diagonally-arranged knives with their edges on their outer portions, a sieve for the cutters, and hackles secured to the outer knives so as to contact with the sieve, substantially as described.

4. A machine of the character described, comprising a frame having a hopper thereon, 30 an exterior cutter mounted beneath the hopper, said cutter having a series of cross knives with their edges pointing inward and having a suitable driving pulley, an interior cutter adapted to revolve independently of the exterior cutter and having a series of diagonally- 35 arranged knives the edges of which point outward, and a sieve for the cutters, substantially as described.

5. In a machine of the character described, 40 the combination, with the exterior cutter comprising end pieces having hollow trunnions, one of which is provided with a driving pulley, and cross knives connecting the end pieces, of an interior cutter comprising a 45 shaft extending through the hollow trunnions of the exterior cutter and provided with a driving pulley, cross arms carried by the shaft, and knives arranged diagonally on the ends of the cross arms so as to pass adjacent to 50 the knives of the exterior cutter, substantially as described.

LOUIS CLAUDIUS JOSSELIN.

Witnesses:

RICHARD GUENTHER,
FRANCISCO PEREZ-VIZCAINO.