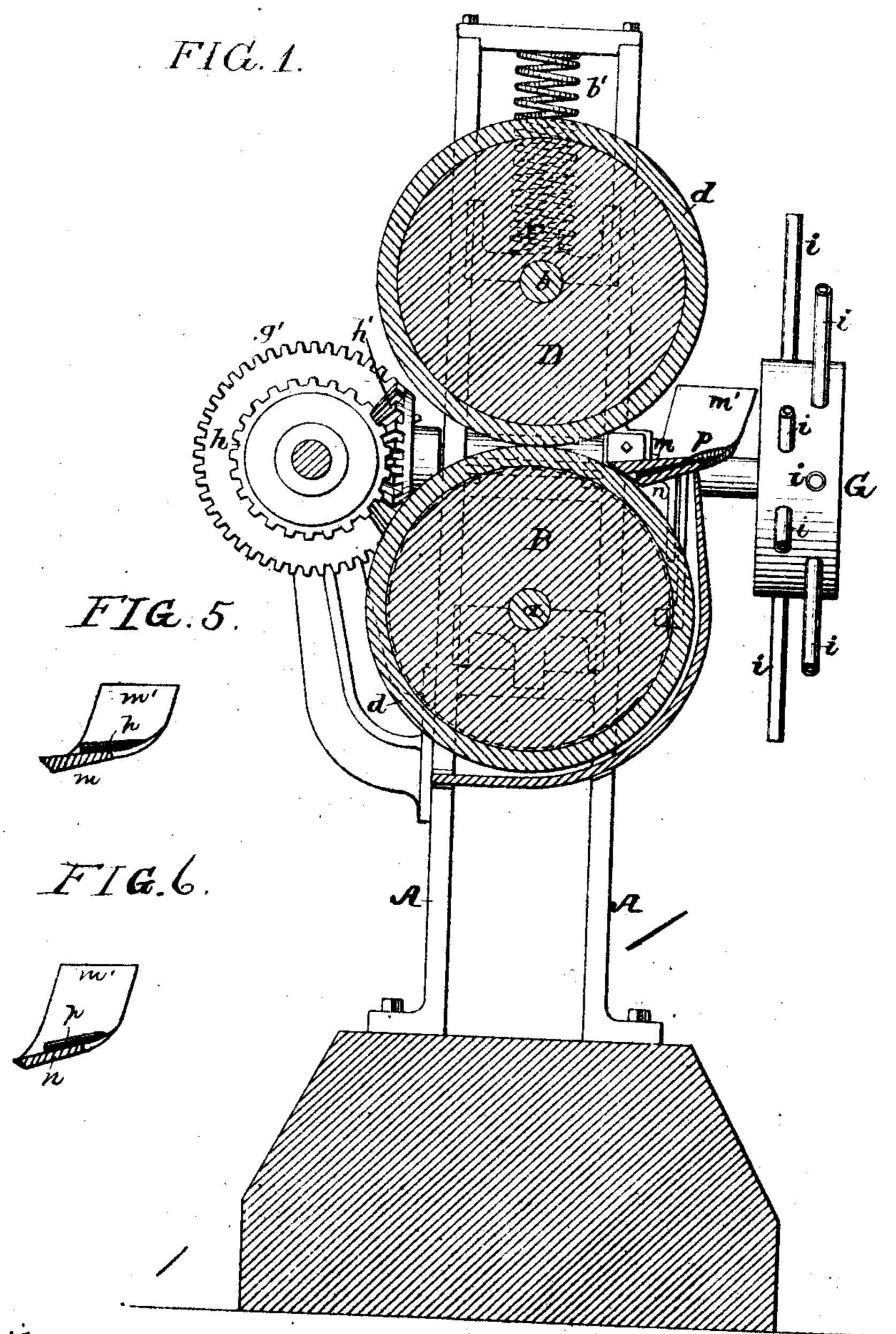
E. L. TEVIS.

TOBACCO STRIPPING MACHINE.

No. 467,143.

Patented Jan. 12, 1892.



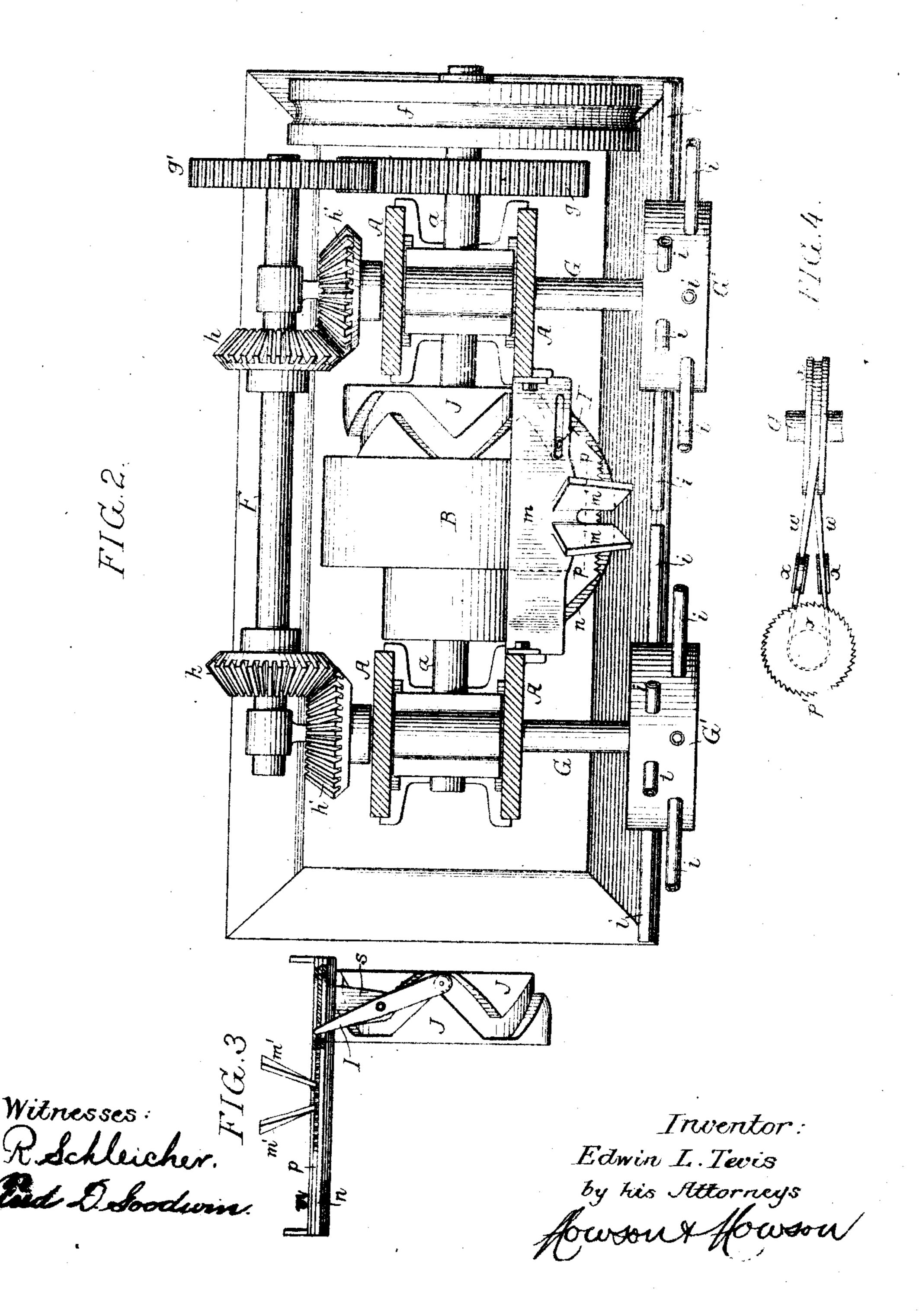
Witnesses: RSchleicher.

Inventor.
Edwin I. Tevis
by his Attorneys
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UNITED STATES PATENT OFFICE.

EDWIN L. TEVIS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE. FOURTH TO ADON SMITH, JR., OF NEW YORK, N. Y.

TOBACCO-STRIPPING MACHINE.

SPECIFICATION forming part of Letters Patent No. 467,143, dated January 12, 1892.

Apollication filed April 25, 1891. Scrial No. 390,381. (No model.)

To all whom it may concern;

zen of the United States, and a resident of | s on said plate z, the lever being acted upon Philadelphia, Pennsylvania, have invented by a cam-groove formed in the periphery of 5 certain Improvements in Tobacco-Stripping | a disk J on the shaft of the lower roll, so that 55 Machines, of which the following is a specific a rapid reciprocating motion is imparted to fication.

a machine for effectively performing the op- | founced by the wings m', the leaf portion will 10 eration known as "stripping" tobacco-that hang down below said trough, the action of 60 is to say, the removal of the stem from the the fingers i of the brushing-drums tending leaf; and this object I attain in the manner | to straighten out the leaf, which in its natural hereinafter set forth, reference being had to condition is curled up around the stem. Asthe accompanying drawings, in which-

stripping machine constructed in accordance | idly drawn forward, and at the same time the with my invention. Fig. 2 is a sectional plan | depending leaf portions are cut off close up view of the same, partly in elevation. Fig. 3 | to the stem by the action of the reciprocating is a front elevation of part of the machine, knife, this action continuing until the stem 20 and Fig. 4 is a diagram illustrating a modifi- is no longer of sufficient size to be retained 70 cation of part of the machine. Figs. 5 and 6 | by the trough formed by the wings m' or to : are detached views illustrating certain other | resist the downward thrust of the fingers for modifications.

AA represent suitable standards, in which | 25 are mounted bearings for the shafts a h of | cle and the detached stem is fed forward and 75 lower and upper rolls B and D, each of which | has a coating d of rubber or other elastic or semi-elastic material, the bearing of the upper roll-shaft b being acted upon by a spring 30 b', tending to depress said upper roll with a yielding pressure. The shaft of the lower! goll has a pulley f for receiving a driving-belt i From any adjacent pulley, and on said shaft is a spur-wheel g, which meshes with a spur- | bacco-stripping machine with which I am fa-35 pinion g' on a counter-shall F, having bevel- | miliar. wheels h, which mesh with bevel-pinions h' ing at their front ends brushing-drums G', | knife may have a rotary motion, instead of a each armed with projecting fingers i, prefer-! reciprocating motion. For instance, in Fig. 40 ably composed of short sections of rubber tubing or other strips.

Extending from one standard to the other | milleys x. in front of the rolls BD are plates m and n, If desired, the knife p may be guided on 45 forming a trough with slotted bottom, and omitted, as shown in Fig. 5; or, on the other 95 or serrated, as shown in Fig. 2. The cutting- | for the stem of the leaf, as shown in Fig. 6. blade whas an opening for the reception of | Having thus described my invention, I

through a slot in the lower plate n, as shown Be it known that I, EDWIN L. TEVIS, a citi- in Fig. 3, and is hung to a depending bracket the cutting-knife p. When the butt-end of The object of my invention is to construct | the stem of the leaf is laid in the trough the leaf is fed inward, the stem is caught be-Figure I is a vertical section of a tobacco- | tween the upper and lower rolls and is rap- 65 the brushing-drums, whereupon the leaf is discharged downward into any suitable receptadelivered from the rolls li D. By this means leaf after leaf may be rapidly acted on by the machine, and one attendant can have charge of the feeding of a number of machines, so that the stripping of the tobacco can be ef- 30 feeted much more rapidly and at much less expense than the usual hand-stripping process, and more effectively also than in any to-

Various means may be employed for actuon short transverse shafts G, the latter carry- atting the cutting-knife, and, if desired, said i I have shown a rotary knife p', driven from 90 one of the shafts G by means of a belt wand

the upper plate m having inclined wings m', the upper plate m and the lower plate may be between these two plates is a cutting-blade p, hand, the upper plate may be omitted and the having its front edge by preference toothed lower slotted plate may serve as the support

50 the upper end of a lever I, which passes I chaim and desire to secure by Letters Patent- 100

1. The combination, in a tobacco-stripping machine, of a pair of feeding-rolls, a slotted trough serving as a support for the stem of the leaf, and a moving knife for cutting the stem from the leaf, substantially as specified.

2. The combination, in a tobacco-stripping machine, of a pair of feed-rolls, the trough having flaring sides and slotted bottom, so as to form a support for the stem of the leaf, and to the moving cutting-knife beneath said trough,

substantially as specified.

3. The combination of the feed-rolls, the stem-supporting trough, the slotted plate beneath the same, and a moving cutting-knife

between said trough and plate, substantially 15 as specified.

4. The combination of the feed-rolls, a support for the stem of the leaf, a reciprocating knife, and a grooved cam-disk on one of the feed-roll shafts for actuating said knife, sub- 20 stantially as specified.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

EDWIN L. TEVIS.

Witnesses:

EUGENE ELTERICH, HARRY SMITH.