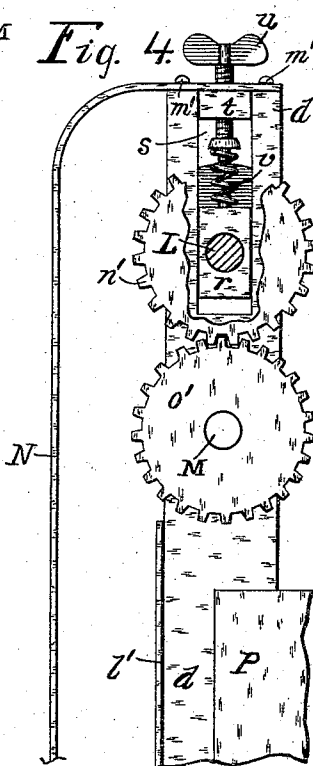
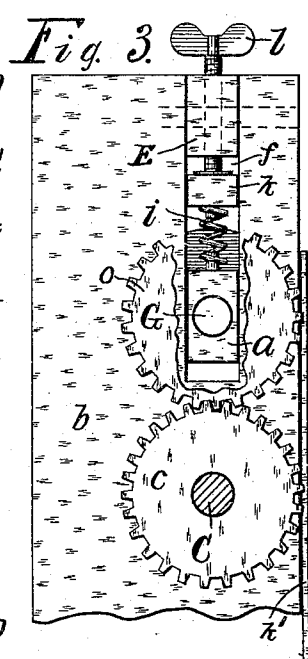
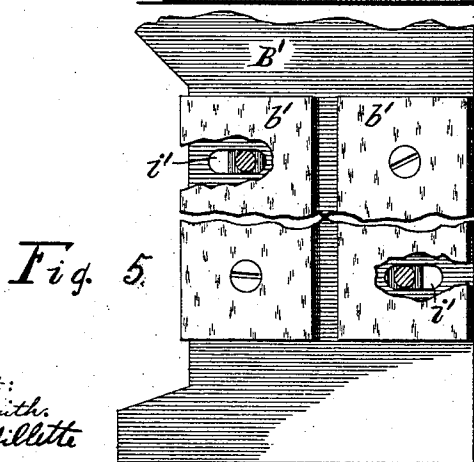
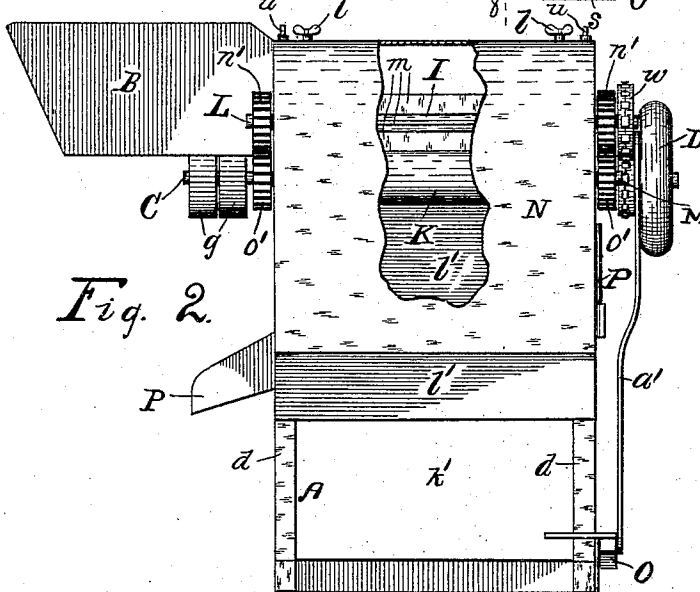
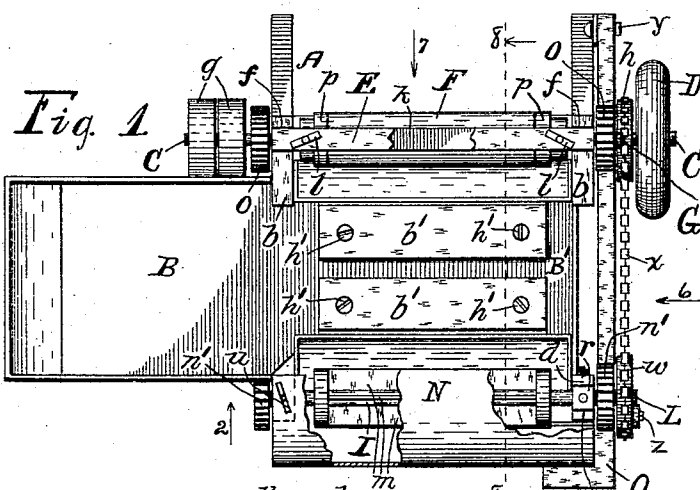


W. D. HASKELL.
MACHINE FOR TOPPING ONIONS.

APPLICATION FILED APR. 9, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



Attest:
M.B. Smith,
Chas. A. Gillette

Inventor:
Willard D. Haskell.
Edw. B. Whitmore, Atty.

W. D. HASKELL.
MACHINE FOR TOPPING ONIONS.

APPLICATION FILED APR. 9, 1904.

NO MODEL.

2 SHEETS—SHEET 2.

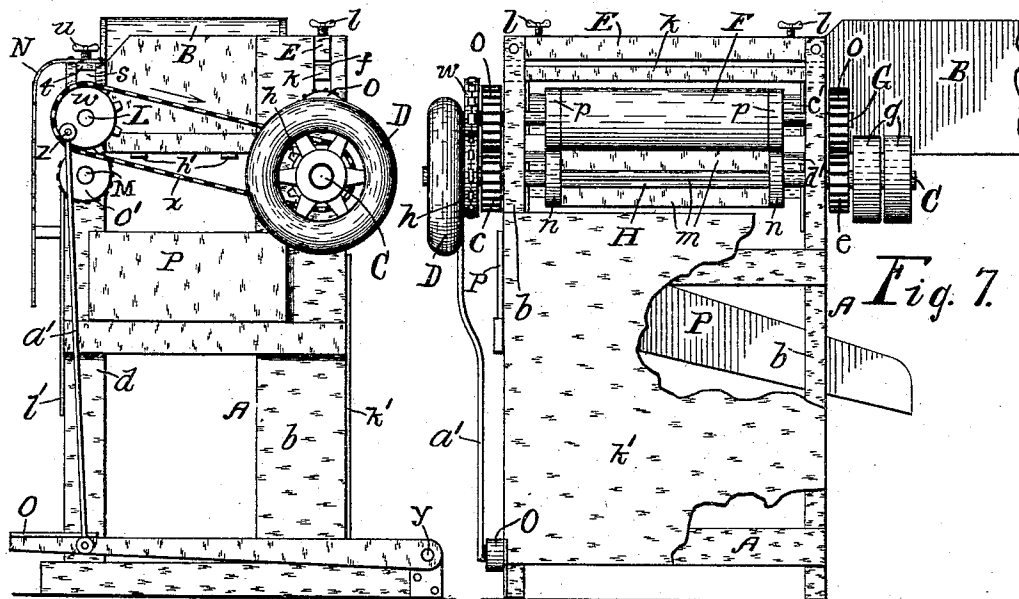


Fig. 6.

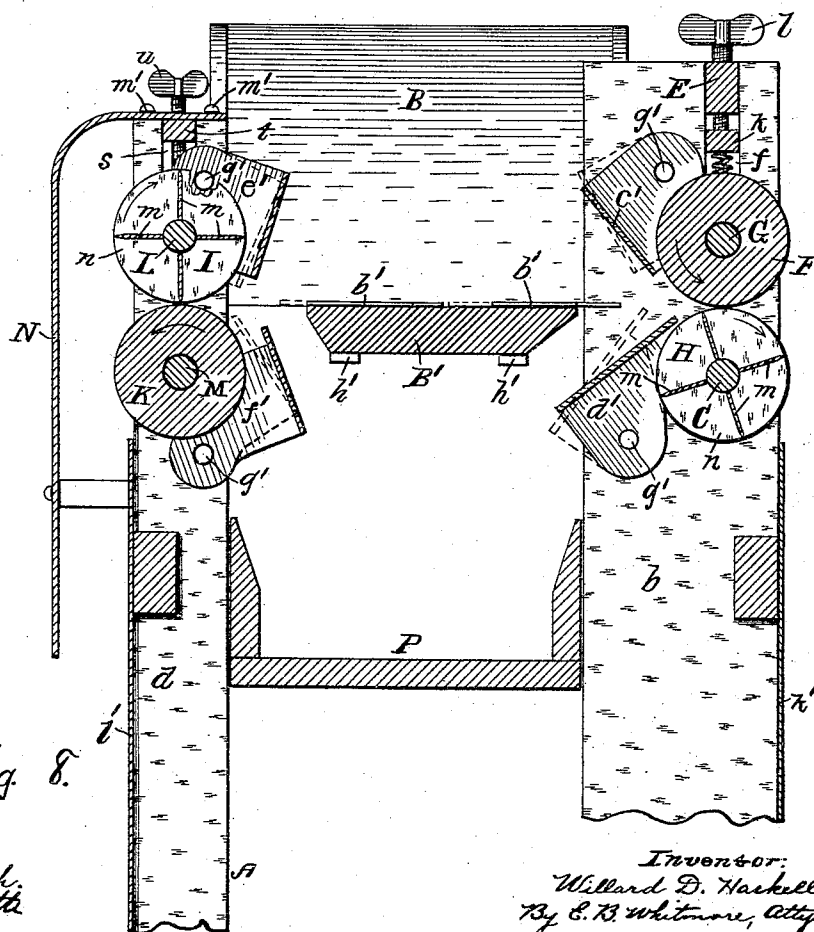


Fig. 8.

Attest:
M. B. Smith,
Chas. A. Gillette

Inventor:
Willard D. Haskell,
By E. B. Whitmore, Atty.

UNITED STATES PATENT OFFICE.

WILLARD D. HASKELL, OF EAST PALMYRA, NEW YORK.

MACHINE FOR TOPPING ONIONS.

SPECIFICATION forming part of Letters Patent No. 765,892, dated July 26, 1904.

Application filed April 9, 1904. Serial No. 202,351. (No model.)

To all whom it may concern:

Be it known that I, WILLARD D. HASKELL, of East Palmyra, in the county of Wayne and State of New York, have invented a new and useful Improvement in Machines for Topping Onions, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

My invention is a machine for rapidly and conveniently cutting the tops from onions, the machine being hereinafter fully described, and more particularly pointed out in the appended claims.

The process of cutting the tops off of onions by hand, using ordinary shears, as is commonly done, is not only slow and laborious, but is inconvenient, and, besides, it brings a painful and injurious pressure or strain upon the thumb and fingers holding the shears. For more rapidly and conveniently performing this work I have produced an improved power-machine, the same being hereinbelow set forth, reference being had in this specification to the accompanying drawings, forming a part thereof.

Figure 1 is a plan of the machine with parts broken away. Fig. 2 is a front elevation seen as indicated by arrow 2 in Fig. 1, a part being broken away. Fig. 3 is a view of parts at the right end of the machine, showing the spring-bar and other parts, parts being omitted and broken away. Fig. 4 is an elevation of other parts at the right end of the machine, further showing the construction, parts being broken away and omitted. Fig. 5 is a plan of a part of the floor of the hopper and the adjustable plates thereon, parts being broken out. Fig. 6 is an elevation of the right end of the machine seen as indicated by arrow 6 in Fig. 1. Fig. 7 is a rear elevation of the machine seen as indicated by arrow 7 in Fig. 1, parts being broken away. Fig. 8 is a cross-section of the main parts of the machine, taken on the dotted line 8 8 in Fig. 1, parts being shown in various positions by full and dotted lines. Figs. 3, 4, 5, and 8 are drawn to various scales larger than that of the remaining figures.

A in the various figures is the frame of the machine, comprising four corner-posts *b b*

and *d d*, B being a hopper for primarily receiving the onions to be topped mounted upon the frame A.

C, Figs. 1, 2, 3, 6, 7, and 8, is the main driving-shaft of the machine resting in bearings in the major corner-posts *b b* and provided with equal spur-gears *c c* outside of the posts *b b* and a pair of overhanging belt-pulleys *g g* adjacent to the gear *c* for the purpose of operating the machine by means of an ordinary driving-belt. The shaft C is also provided with a sprocket *h* outside of the gear *c* and an overhanging inertia-wheel D, as shown.

Between the major posts *b b* upon the shaft C is a cutter-body H, having a series of longitudinal cutters *m*, held in heads *n*, rigid with the shaft. Above and parallel with the driving-shaft C is a similar shaft G, Figs. 1, 3, 7, and 8, resting in bearing-blocks *a*, adapted to move in vertical directions in vertical slots or openings *f f*, formed in the upper ends, respectively, of the posts *b b*. This shaft G is provided with a plain cylindrical roller F, of wood or other suitable material, between the posts *b b* and in position to receive successively against its convex surface the cutters *m* as the two shafts G C are revolved. The shaft G is further provided with gears *o o* in positions to be engaged, respectively, by the gears *c c* of the shaft C, so that the cutter-body H and the roller F must turn together in opposite directions.

A horizontal bar E occupies the upper parts of the slots *f f* and is made rigid with the posts *b b*, beneath which bar is a lighter bar *k*, adapted to move in vertical directions in the slots *f f*. Springs *i i* are interposed between the bar *k* and the respective bearing-blocks *a a* of the roller-shaft G, and vertical thumb-screws *l l*, piercing the rigid bar E and stepped onto the bar *k*, serve to regulate the pressure of the springs against the blocks *a a* to hold the roller F down against the cutter-body H with a yielding pressure. The heads *n n* of the body H are cylindrical with their convex surfaces substantially even with the cutting edges of the cutters *m*, and the roller F is formed with bands *p*, of india-rubber or other yielding material, to meet and roll upon

the purpose of keeping the onion-tops falling from the cutter-body H away from under the machine and a similar sheet of metal I', Figs. 2, 4, 6, and 8, to the front side of the frame for a similar purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A machine for topping onions, having a hopper with extended floor, revolving cutters and coacting rollers at either side of said floor, and shiftable guards for said cutters and the rollers, means coöperating with said guards and adjustable toward and from said rollers, and means for operating the cutters and the rollers.

2. A machine for topping onions, having a hopper with extended floor, revolving cutters and coacting rollers at either side of said floor, and shiftable guards for said cutters and the rollers, plates adjustably secured to said floor to coact with the guards, and means for operating the cutters and rollers.

3. A machine for topping onions, having forward and rear corner-posts open at their upper ends, a shaft with roller held to turn in bearings in said forward corner-posts, a shaft L with cutter-body to coact with said

roller held in bearings movable in said open ends of the forward posts, a shaft C with cutter-body H held to turn in bearings in the rear corner-posts, a shaft with roller to coact with said cutter-body H held in bearings movable in the open ends of the rear corner-posts, sprockets on said two shafts L, C, a chain on said sprockets, adjustable floor-plates between said rollers, guards coacting with said floor-plates, and means for turning said shafts L C.

4. A machine of the kind described, having a cutter-body and coacting roller at either side thereof, each cutter-body having circular heads, cutting-blades between the heads and held at their ends in the heads, each roller having bands of yielding material to roll upon said respective heads of the coacting cutter-body, springs acting on the bearings of the shafts of the rollers, and means for turning the cutter-bodies and the rollers.

In witness whereof I have hereunto set my hand, this 30th day of March, 1904, in the presence of two subscribing witnesses.

WILLARD D. HASKELL.

Witnesses:

ENOS B. WHITMORE,
MINNIE SMITH.