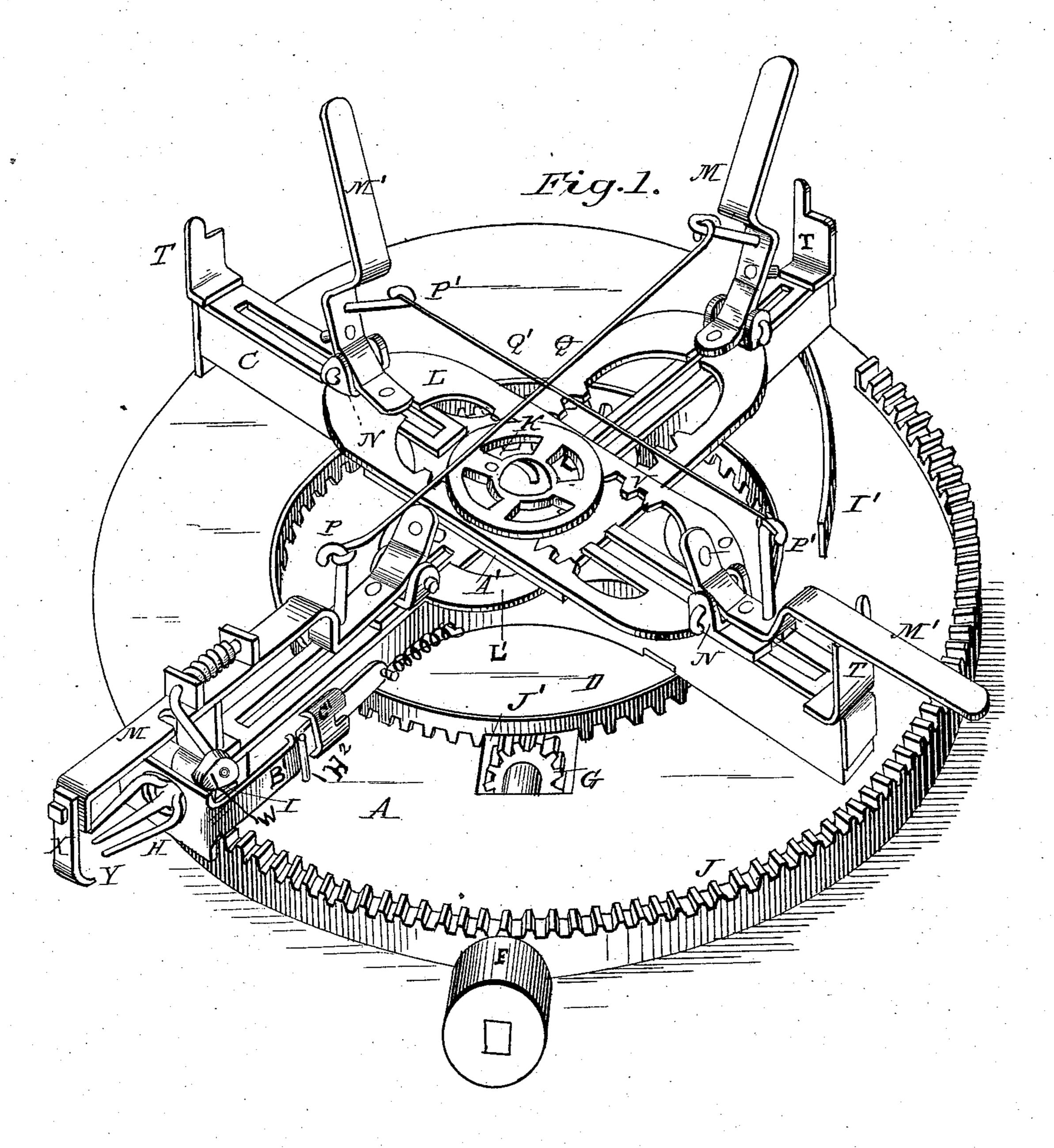
(Model.)

J. L. WILCOX.

APPLE PARER.

No. 287,601.

Patented Oct. 30, 1883.



WITHNESSES:

Red & Dieterich, Arthur & Morsell. Joshua L. Milcox INVENTOR.

By

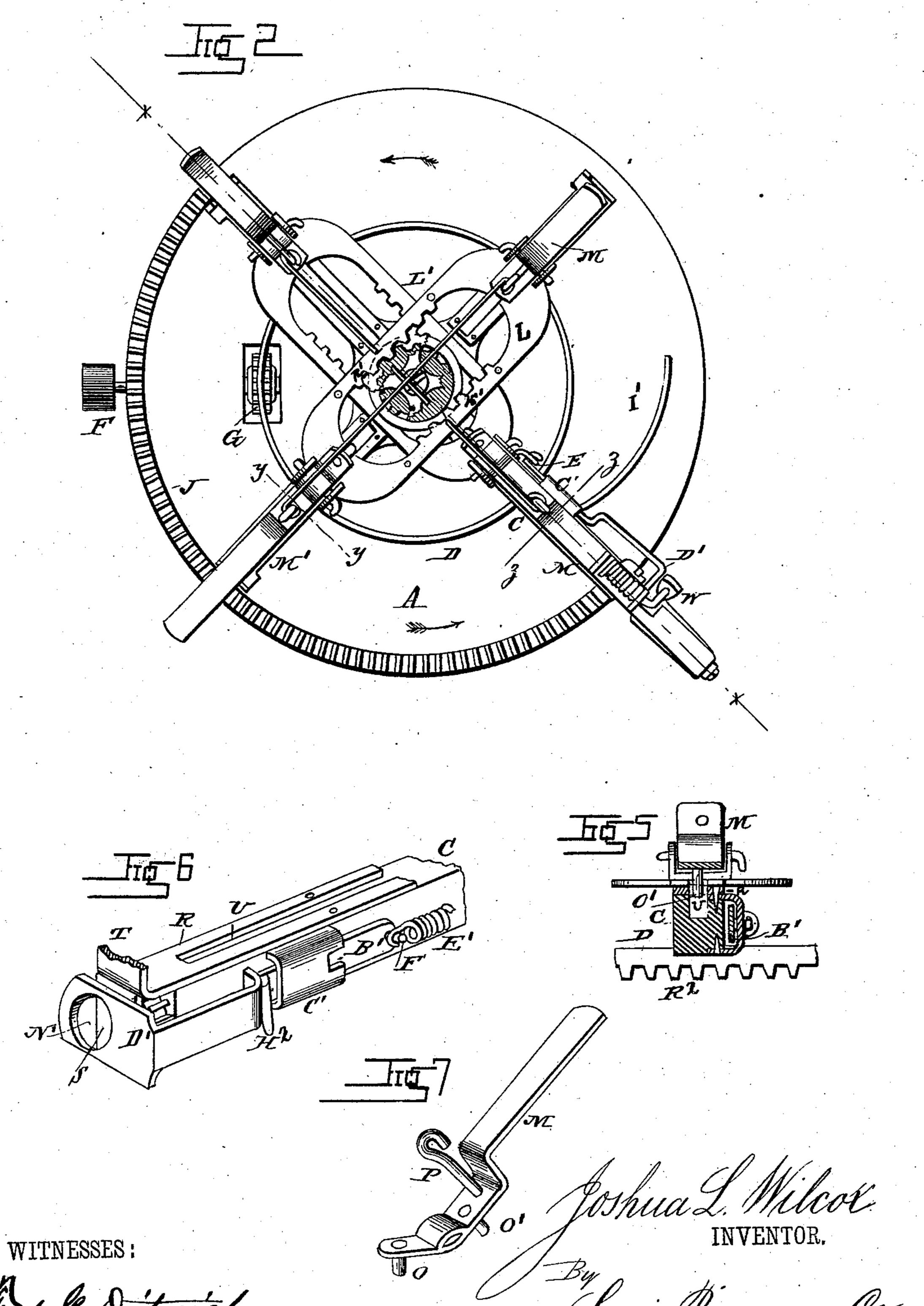
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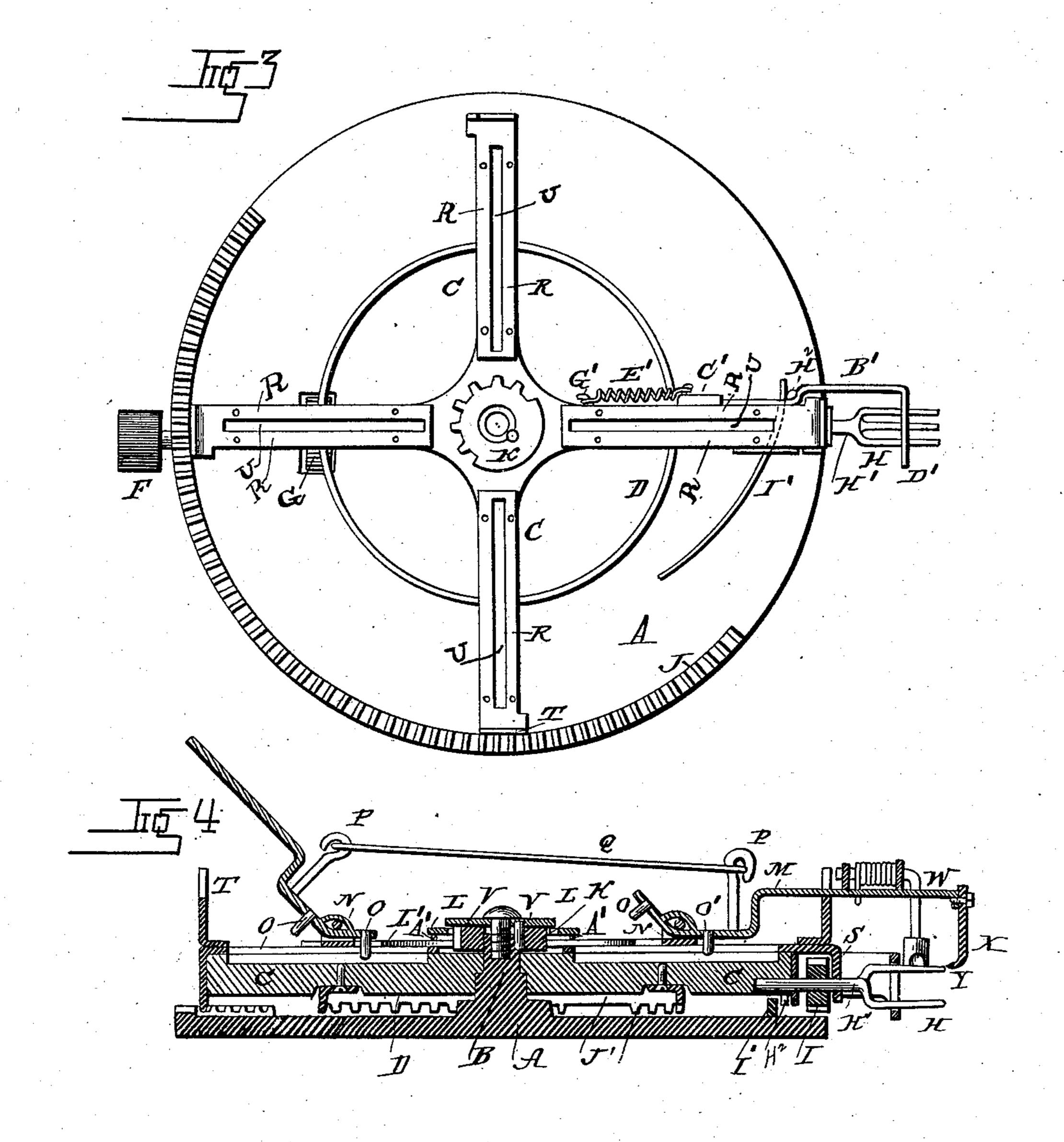


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By Louis Bagger & Co.

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United States Patent Office.

JOSHUA L. WILCOX, OF FLINT, MICHIGAN.

APPLE-PARER.

SPECIFICATION forming part of Letters Patent No. 287,601, dated October 30, 1883.

Application filed June 23, 1883. (Model.)

To all whom it may concern:

Be it known that I, Joshua L. Wilcox, of Flint, in the county of Genesee and State of Michigan, have invented certain new and use-5 ful Improvements in Paring, Slicing, and Coring Machines; and I do hereby declare that the following is a full; clear, and exact description of the invention, which will enable others skilled in the art to which it apper-10 tains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved paring, slicing, and coring machine. 15 Fig. 2 is a top or plan view of the same, the parts being turned to a different position from that shown in Fig. 1. Fig. 3 is a top view of the base-plate and the cross. Fig. 4 is a longitudinal vertical sectional view on line x x, 20 Fig. 2. Fig. 5 is a cross-sectional view through one of the arms of the cross on line zz, Fig. 2; and Figs. 6 and 7 are detail views of parts of the machine, which are hereinafter described.

Similar letters of reference indicate corre-

25 sponding parts in all the figures.

My invention has relation to a combined paring, slicing, and coring machine; and it consists in the improved construction and combination of parts of the same, as hereinaf-30 ter more fully described and claimed.

In the accompanying three sheets of drawings, A represents a solid metal base-plate, which has a vertical post or spindle, B, aris-

ing from its center.

C indicates the cross, which consists of two arms, which intersect each other at right angles, and have an opening in their center, through which the post or spindle B passes. A metal hoop or circle, D, is fastened to the 40 under side of the cross, and has its lower edge provided with cogs or teeth R². The hoop D and the cross are concentric. The base-plate A is recessed for the reception of a driveshaft, E, working in suitable bearings, and 45 having on its outer end a pulley-wheel, F, and on its inner end a pinion, G, the teeth of which mesh with the teeth on the metal hoop or circle D. A fork, H, is attached to the end of each arm of the cross C by having the fork-

of the arm. A pinion, I, on each of the forkshafts gears into a series of upwardly-projecting cogs or teeth J on the edge of the baseplate A, thereby rotating the forks H, when the cross C is revolved upon its center. The 55 teeth J extend around one-half of the circumference of the base-plate, as will be seen by reference to Fig. 2 of the drawings.

K represents a pinion having one-half of its periphery solid, while the other half is pro- 60 vided with cogs or teeth and fastened upon the central post or spindle, B, above the cross C, by being keyed upon the spindle, so as to remain stationary while the cross C revolves.

L L' represent two metal plates cut out to 65 form double racks, the opposite sides of each rack being at such a distance apart that when the racks are placed upon the cross C, with the pinion K in their center, the points of the teeth on one side of a rack, pressing against 70 the unbroken periphery of the pinion, will force the teeth on the opposite side of the rack between the teeth on the opposite side of the pinion.

M M' represent the knife-bars, which are 75 pivoted at their inner ends between upwardlyprojecting jaws N on the ends of the metal plates or racks L L'. Each knife-bar is provided at its inner end with two downwardlyprojecting guide-pins, O O', one on each side 80 of the joint N, which fit into slots or recesses on the top of the arms of the cross, and serve to prevent all lateral motion on the part of the racks LL'. The inner end of each knifebar, to which the guide-pin O' is attached, is 85 bent upward, as shown at Fig. 4, in order to permit of the outer end of the knife-bar, to which the paring-knife is attached, being raised or lowered.

P P represent upwardly-projecting arms— 90 one on each of the knife-bars M M—bent at their upper ends to form hooks adapted to engage the ends of a metal rod, Q, the said rod being of such a length that when one of the arms M is depressed the opposite arm will be 95 raised or elevated. The knife-bars M' M' are provided with similar upwardly-projecting arms, P'P', having their upper ends bent to form hooks adapted to engage the ends of a 50 shaft H' inserted longitudinally into the end I metal rod, Q', of such a length that when one 100

of the knife-bars M' is depressed the opposite I knife-bar will be raised.

To the under side of the top rack, L, are fastened chafing-rods A', which protect the 5 surface of the lower rack, L', from wear.

A metal strip or plate, R, is fastened upon the top of each arm of the cross C, the outer end of each of the strips or plates extending out beyond the end of the arm and being bent the second tright angles, as shown at Fig. 6, the downwardly-projecting end Shaving an opening through which the fork-shaft H' passes, the end Sthus serving as a support or bearing for the fork-shaft. A longitudinal groove or 15 recess, U, is made in the upper surface of each arm for the reception of the guide-pins O O. An upwardly-projecting arm, T, is attached to the outer end of each arm of the cross, upon the ends of which (arms T) the knife-bars rest 20 when in operative position. A metal disk, V, is fastened upon the top of the spindle B, and serves to hold the racks L L in position. Near the outer end of each knife-bar is attached a paring-knife, W, which is of the form usually 25 employed, while to the outer end of each knifebar the slicing-knife X is fastened, as shown at Fig. 1. The point of the slicing-knife is bent inward at right angles to the blade, to

> The device for stripping the core of the apple from the fork after the apple has been pared and sliced consists of a metal strip, B', working in a sleeve, C', which is fastened to the side of the arm of the cross, the outer end 35 of the metal strip B' being bent at right angles, as shown in Fig. 6, the bent end D' being provided with an opening, N', through which the tines of the impaling-fork pass. A downwardly-projecting pin or stud, H", is attached 40 to the strip B', as shown in the drawings. A spiral spring, E', fastened at one end to a pin or stud, F', on the inner end of the strip B', and at the other end to a similar pin or stud, G', in the arm of the cross, serves to draw the 45 strip B' back into its normal position after it has

removed the cylindrical core-piece from the fork, as hereinafter described.

I' represents a segmental strip of metal fastened to the base-plate at the point and in the 50 position shown in the drawings. The metal hoop or circle D has four open spaces, J', on its lower edge, made by removing several of the teeth on that edge, the object of this arrangement being that when the pinion G on 55 the drive-shaft F comes opposite the said spaces the cross C will cease to rotate, for the purpose hereinafter described.

The operation of my improved paring, slicing, and coring machine is as fellows: The 60 cross C, being in the position shown in Fig. 1, with the pinion on the drive-shaft resting in one of the open spaces J', previously referred to, an apple is placed upon the fork H

on the end of the arm, which is immediately 65 to the left of the drive-shaft in Fig. 1, and the knife-bar belonging to the said arm is depressed until it rests upon the top of the sup-

porting arm T. By pushing the arm of the cross a little to the right, the pinion on the drive-shaft will mesh with the teeth on the 70 lower edge of the hoop or circle D, and thereby rotate the cross until the pinion on the drive-shaft comes to another of the open spaces J', when the cross stops, thus allowing the operator to place an apple on the fork of the arm 75 immediately following, and to press the knifebar of that arm into operative position, as before explained. As the cross rotates the pinion I on the fork-shaft gears into the teeth J on the edge of the base-plate, thereby rotat- 80 ing the fork and the apple impaled upon it. The cross turns in the direction indicated by the arrow in Fig. 2, carrying the racks L L' with it. The teeth on the side R' of the rack L will mesh with the teeth on the stationary 85 pinion K, thereby drawing the rack L back and causing the paring-knife on the end of the knife-bar to pass over the entire length of the apple on the rotating fork H, so as to cut a continuous paring from the fruit from the blossom 90 to the stem end. As the knife-bar is carried back over the apple the slicing-knife X (which is fastened to the outer end of the knife-bar beyond the paring-knife) cuts the apple into a continuous spiral shaving. The end of the 95 slicing-knife is bent to form a corer, Y, as previously described. By the time the end of the arm first referred to has passed from one end to the other of the series of cogs or teeth J on the edge of the base-plate, the apple will have 100 been pared and sliced, and a cylindrical corepiece and sliced apple will remain upon the impaling-fork. At this point the downwardlyprojecting pin or stud H" comes in contact with the upper edge of the segmental strip I', and 105 as the cross rotates the pin, following the outward curve of the strip I', will force the perforated end of the strip B' out along the tines of the fork until the cylindrical core-piece and sliced apple are stripped from the fork. When 110 the pin H has passed beyond the outer end of the strip I', the spring E' will draw the stripping device back into its normal position. When the cross C has reached this point, as shown in Fig. 2, the side R' of the rack L will 115 be opposite the unbroken periphery of the stationary pinion K. The teeth on the opposite side, K', of the rack L will mesh with the teeth on the pinion, thereby reversing the gear, so that it will draw in the opposite direction. The 120 other rack, L', operates in the same manner.

From the foregoing description, taken in connection with the accompanying drawings, the operation of my improved paring, slicing, and coring machine will readily be understood 125 without requiring further explanation. It will be seen that my improved machine will pare, slice, and core two or more apples at once, thus effecting a great saving of time.

Having thus described my invention, I claim 130 and desire to secure by Letters Patent of the United States—

1. In a paring, slicing, and coring machine of the described construction, the combination

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of the metal strip B', having a perforated curved portion, D', sleeve C, pin or stud F', and coiled spring E', with the segmental strip I', attached to the base-plate, substantially as described,

5 for the purpose set forth.

2. In a paring, slicing, and coring machine of the described construction, the combination of the base-plate A, having central vertical post, B, provided with the stationary pinion K, cross C, adapted to be rotated upon the central post, B, double racks L L', movably secured upon the cross C, with the stationary pinion K in their center, and means by which the cross C is rotated, constructed and combined substantially as and for the purpose shown and set forth.

3. In a paring, slicing, and coring machine, the combination of the base-plate A, provided

with a series of teeth or cogs, J, and having a vertical post or spindle, B, in its center, cross 20 C, cogged or toothed metal hoop or circle D, constructed as described, forks H, provided with a pinion, I, on each fork-shaft, pinion K, double racks L L', and operating-pinion G, provided with the means for rotating it, and 25 adapted to engage the cogged circle D, all constructed and combined to operate substantially as and for the purpose shown and described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature 30 in presence of two witnesses.

in presence of two witnesses.

JOSHUA L. WILCOX.

Witnesses:

JNO. ALGOE, W. A. BURR.