J. Bullock Jr. & S. Benson,

Apple Parer,

No. 5,197, Patented July 24, 1847.

Fig. 1.

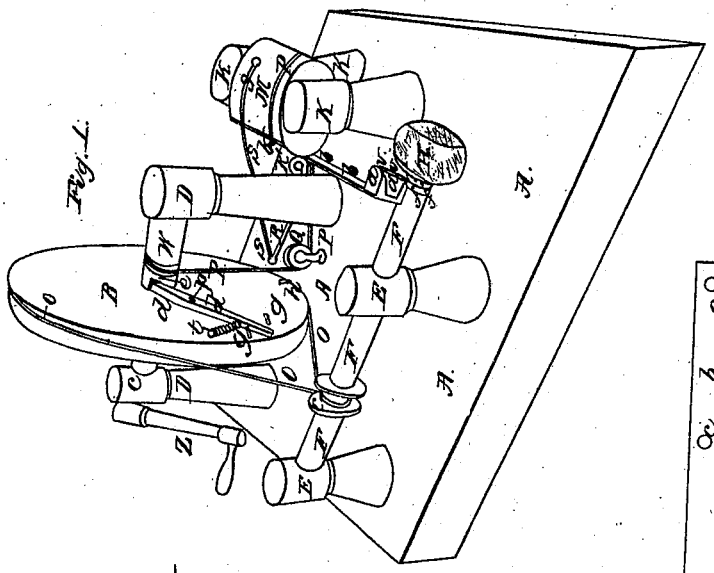


Fig. 4.

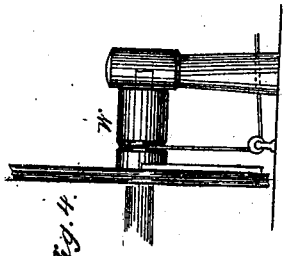


Fig. 2.

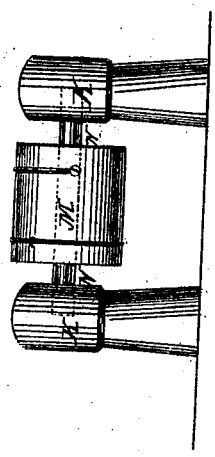
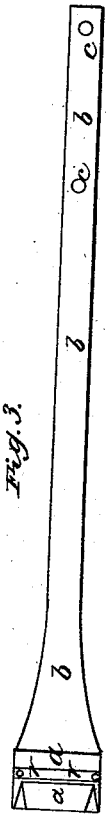


Fig. 3.



UNITED STATES PATENT OFFICE.

J. BULLOCK, JR., AND SEWALL BENSON, OF NEW YORK, N. Y.

MACHINE FOR PARING APPLES.

Specification of Letters Patent No. 5,197, dated July 24, 1847.

To all whom it may concern:

Be it known that we, JESSE BULLOCK, Jr., and SEWALL BENSON, of the city, county, and State of New York, have invented a new and Improved Machine for Paring Apples; and we do hereby declare that the following is a full and exact description thereof.

In the accompanying drawing, Figure 1 is a perspective view of the whole machine.

A, A, A, is a platform or bottom board, which may be made about twelve inches wide and eighteen inches long upon which the machine is built.

B, is a driving wheel which should be made about fourteen inches in diameter, with the edge grooved to receive a band which will be presently described. *c*, is a shaft running through and upon which the driving wheel B, is made fast, turning upon its journals in the head of posts D, D. Upon one end of said shaft *c*, is affixed the crank Z, by the turning of which the machine is put in operation. On the other end of said shaft between its journal and the driving wheel B, is a small drum W about one inch and a half in diameter as shown in Fig. 4, to which one end of the cord P, P, P, is made fast, passing down through the pulley Q, thence across and around the drum M, to which the other end is made fast, as shown in Fig. 1. To the driving wheel B, is attached the lever *d*, *d*, by the joint pin, *p*, which is brought to act upon the small drum W, by means of a notch at *e*, into which the end of the lever falls by means of the spiral spring, *t*, *t*, to which position it is held during a revolution of the driving wheel B. By this arrangement the cord P, P, P, makes one turn around the small drum W, causing the large drum M, to move carrying with it the knife, V, V, to the opposite side of the apple at which time, the end of the lever, *d*, *d*, comes in contact with the pin, *h*, raising the other end of the lever from the notch at, *e*. When the drum W, takes a reverse motion making one revolution back and is again caught by the end of the lever falling into the notch at *e*, which reverse motion is produced by means of the spring, R, R, and cord, S, S, S, being affixed to the platform, A, A, A, and drum M, as shown in Fig. 1. The band, O, O, O, passes around the driving wheel, B, crossing itself at and around the whir C, which should be made about one inch and one fourth in diameter.

F, F, F, is a spindle to which the whir, C, should be made fast, running upon its journals in the head of posts E, E, to the end of which the apple, H, is affixed by means of the fork, *f*, *f*, causing it to revolve during the operation of the machine.

V, V, is a knife made fast to the head, *a*, *a*, of the spring shaft, *b*, *b*, *b*, which shaft is confined at its other end by screws, *c*, *c*, to drum, M, and so arranged as to perform its operation upon the apple by one revolution of the driving wheel, B. This shaft as seen in Fig. 3, should be made wide and thin and sufficiently yielding to accommodate itself to the different sizes of apples. The drum, M, should be made about three inches long and three inches in diameter moving easily upon the shaft, N, N, passing through its center and made fast in the head of posts, K, K, as shown in Fig. 2, which posts and drum should be so arranged as to bring the edge of the knife in contact with the apple before the machine moves as seen in Fig. 1.

g, *g*, are two pins placed at either side of the lever, *d*, *d*, to protect the spring *t*, *t*, from injury.

Mode of operation.—The machine may be placed upon the lap, table, or any other convenient place, with the spindle in front and the crank at the left hand, the apple is placed upon the fork, when the crank is seized by the left hand and turned over or from you, making one revolution of the driving wheel which performs the whole operation.

Having thus fully described the nature of our invention, and described also the manner in which we put our machine in operation, what we claim therein as constituting our improvements and desire to secure by Letters Patent are the following particulars:

1. The arrangement of the spring shaft knife for paring apples, upon a drum wheel.

2. The combination of said drum wheel (with the knife attached) with the driving wheel, regulated in its operation by the pulley, band and lever, and brought back to its place of starting by means of the spring and cord and the whole so arranged as to make the entire operation by one revolution of the driving wheel as herein set forth.

JESSE BULLOCK, JR.
SEWALL BENSON.

Witnesses:
JNO. R. BRADY,
SAMUEL M. JARVIS.