

*C. Darling,
Apple Cutter.*

N^o 15,224.

Patented July 1, 1856.

Fig. 2.

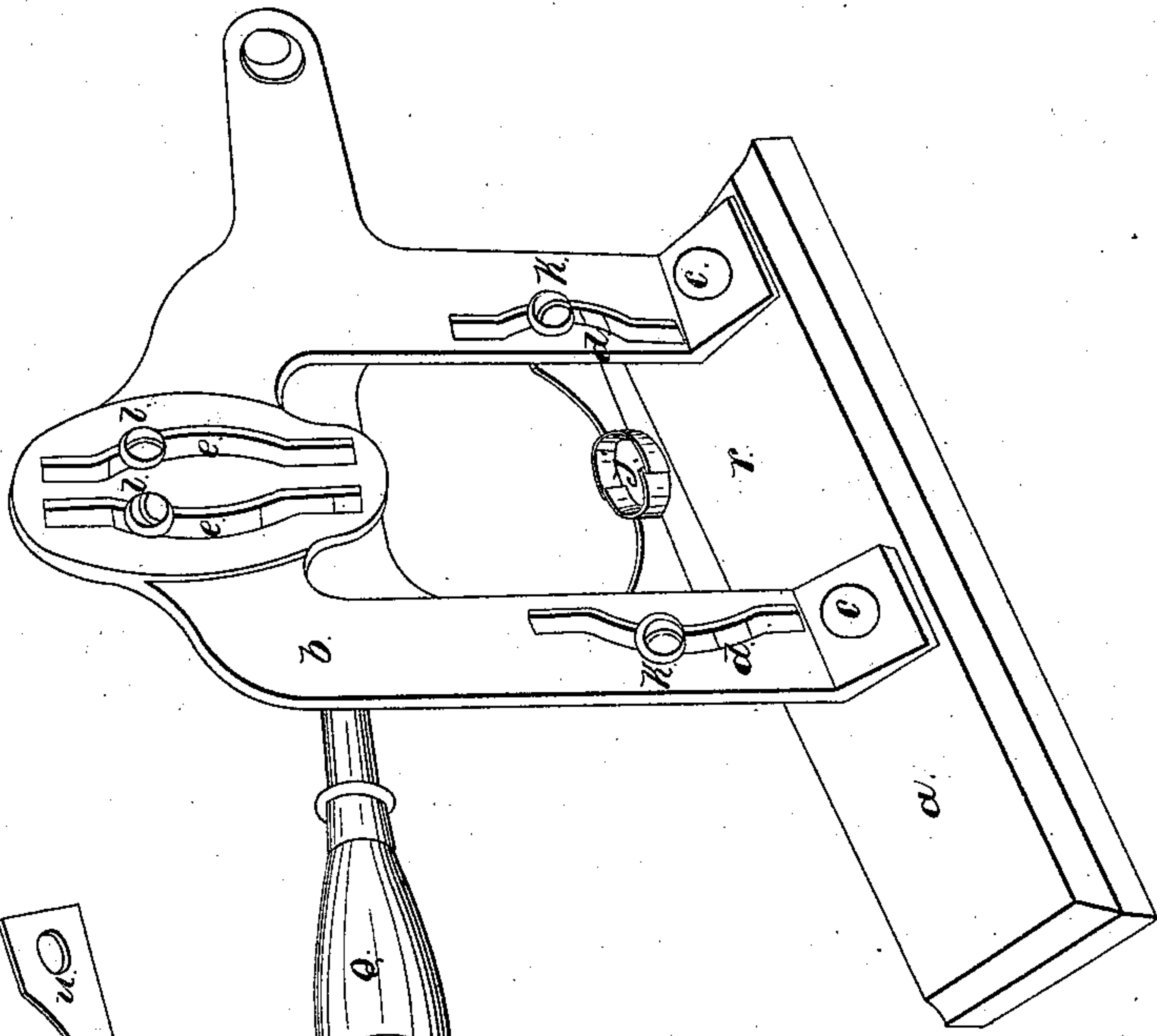


Fig. 3.

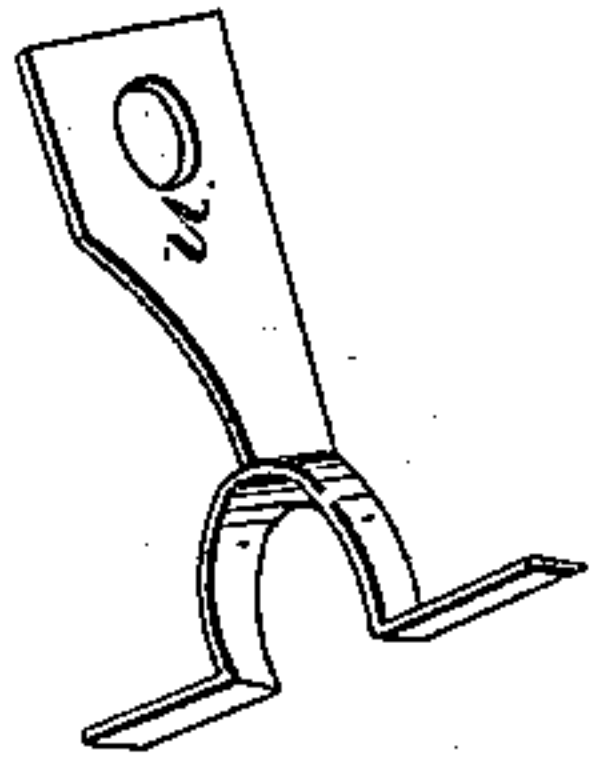
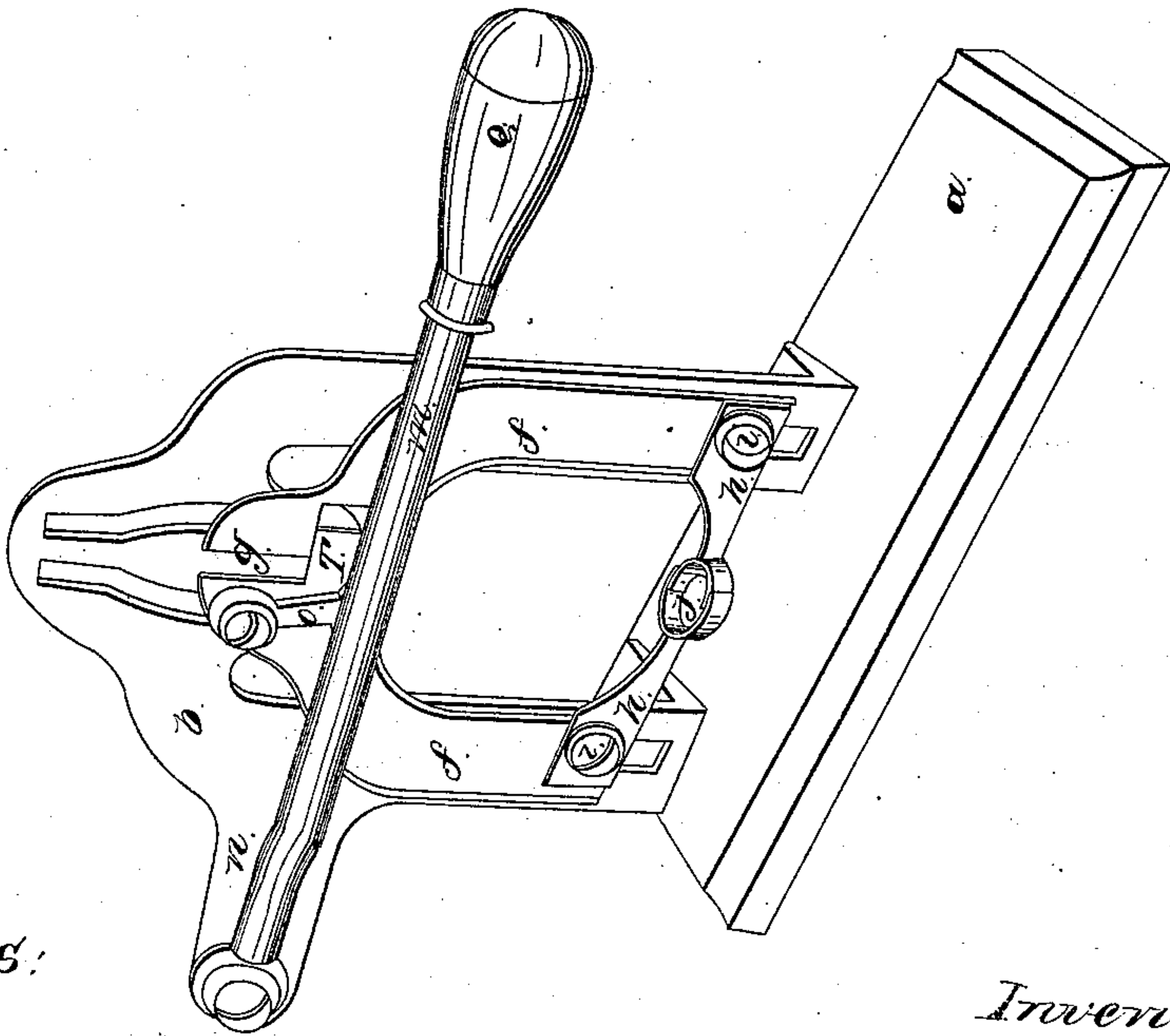


Fig. 1.



*Witnesses:
H. Baker
R. C. Baker.*

*Inventor:
Cook Darling*

UNITED STATES PATENT OFFICE.

COOK DARLING, OF UTICA, NEW YORK.

MACHINE FOR CUTTING AND CORING APPLES.

Specification of Letters Patent No. 15,224, dated July 1, 1856.

To all whom it may concern:

Be it known that I, COOK DARLING, of the city of Utica, in the county of Oneida and State of New York, have invented a new and useful Machine for Coring and Quartering or Halving Apples; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of my invention consists in providing a means of cutting out the cores of apples, and also of cutting the apples into halves or quarters for drying or other use, at a single operation, and performing the work so as to leave the core larger in the center than at the ends, and by a single instantaneous motion.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1, of the annexed drawings exhibits a front and Fig. 2, a rear view of my machine.

Like letters refer to the same parts in both drawings.

a, is a platform of wood. *b*, is a metallic standard secured to it at the base by the screws *c*, *c*, (Fig. 2). This standard has in each of the bars forming its sides, a slot cut through it as seen at *d*, beginning in a straight line, then curving slightly outward, and again terminating straight. There are likewise at the top of the standard, two other slots of like dimensions and proportions as seen at *e*.

f (Fig. 1) represents an archshaped plate of less dimensions than the standard *b*, and lying flat against its surface. It is divided at the top by the irregular-shaped joint which is seen partly open at *g*.

h, *h*, are knives which are secured to the base of the arch by means of the set screws *i*, *i*. These knives terminate at their inner extremity, in two curved blades, the one fitting and sliding within the other as seen at *j*. Immediately behind the set screws *i*, *i*, two studs are cast upon the arched plate *f*, of a proper size to fit and slide within the slots *d*, *d*, (Fig. 2) and upon the other side of the standard, directly opposite are two other similar set screws seen at *k*, *k*, which pass into the studs, the washers setting snug against the studs, but loose enough against the surface of the standard to allow free play upward and downward. The set screws *l*, *l*, are secured to the studs in the

same manner in the upper slots and answer the same purpose.

m, (Fig. 1) is a hand lever, having its fulcrum at the outer extremity of the projection *n*. It is connected about midway with the movable bar *o*, and this bar is secured to the arch *f*, by the screw *p*, allowing to the bar a lateral and vertical motion. The joint *g*, in the top of the arch *f*, is so formed by reason of the lock *l*, that the side of the arch connected with the lever, cannot be moved up and down without carrying with it the other side also. Now if the hand be placed upon the handle *q*, of the lever, and it be moved up and down, the movement of the arched plate *f*, (Fig. 1) being regulated and guided by the studs passing through the slots, the curved portion of the knives at *j* being attached thereto, will describe a figure, beginning, and terminating nearly as a cylinder, but expanded and spheroidal in shape midway. If an apple be placed under the knives on the platform at *r*, (Fig. 2) and the knives be suddenly thrust down by means of the handle *q*, it is evident that the portions *h*, *h*, (Fig. 1) will divide the apple in two, while the curved portions are exactly adapted to take out the core.

The orifices in the ends of the knives, through which pass the set screws *i*, *i*, are made a little oblong in shape as seen at *u*. Fig. 3, in order that the knives may be set a little outward or inward to accommodate the size of the core to be cut out. In case also that it is desired to quarter the apple instead of halving it, the outside curved knife may be made of the form seen in Fig. 3. By putting such a knife in the place of the outer one in Figs. 1 and 2, the apple would be quartered instead of halved simultaneously with taking out the core.

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

The machine, substantially as herein described, for dividing and coring apples at one operation; the knives having a lateral as well as a vertical motion in their descent so as to separate the core by a cut wider in the center than at the ends as described. The whole being arranged substantially in the manner and for the purposes herein set forth.

COOK DARLING.

Witnesses:

WM. BAKER,
R. C. BAKER.