

(No Model.)

G. H. PURDY.

MACHINE FOR INDENTING AND CRUSHING MEATS OR LIKE SUBSTANCES.

No. 470,258.

Patented Mar. 8, 1892.

Fig. 1.

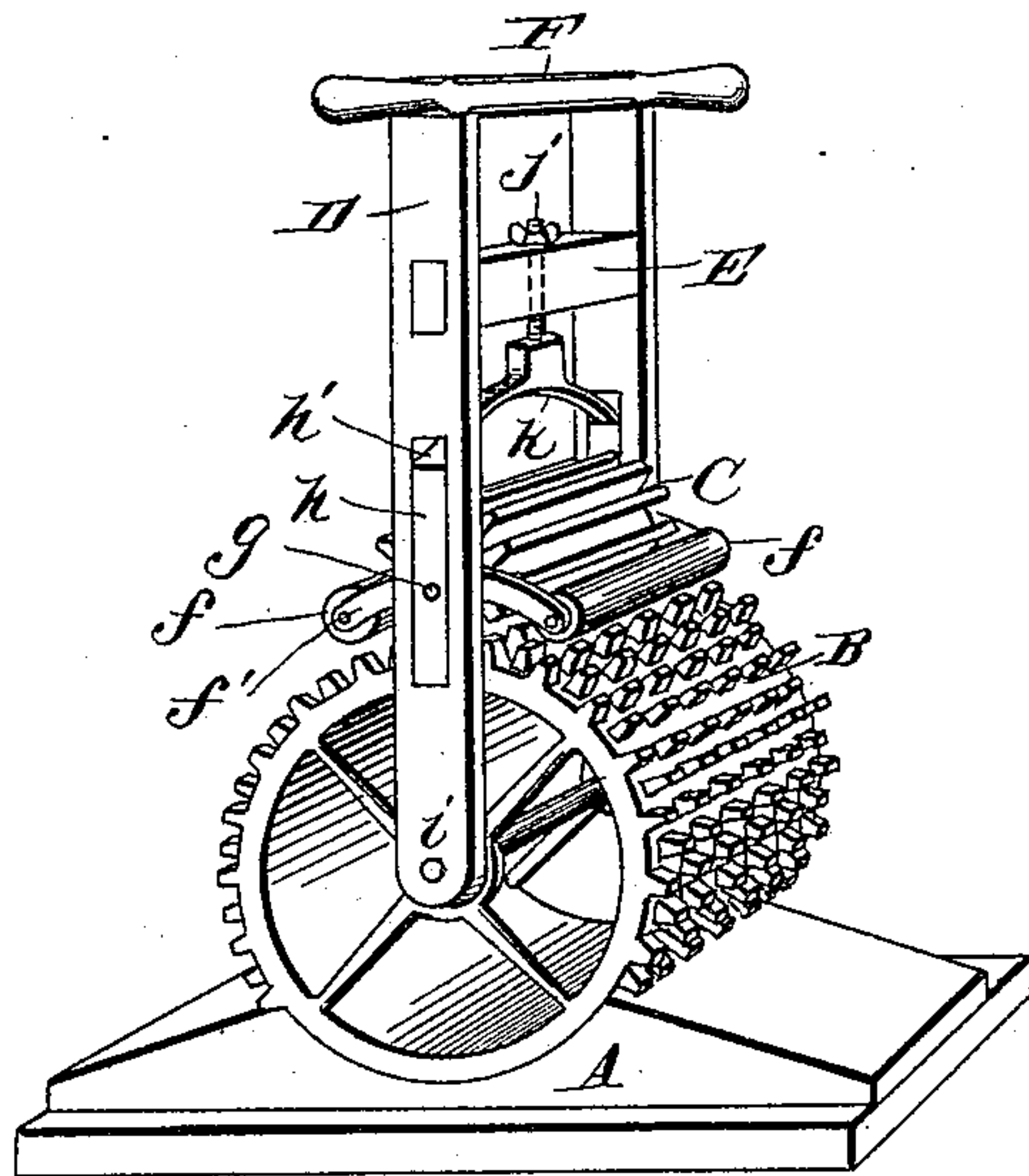
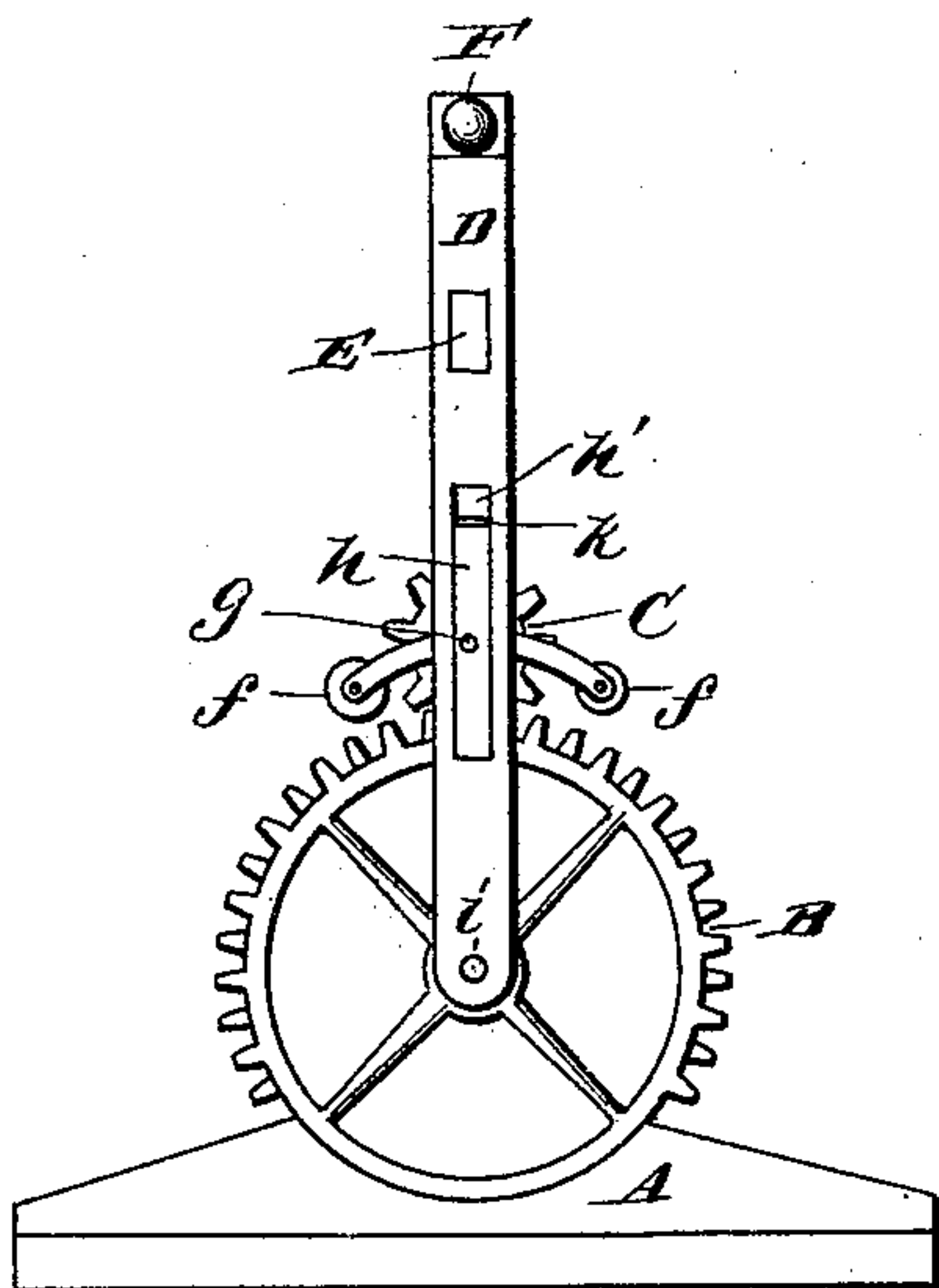
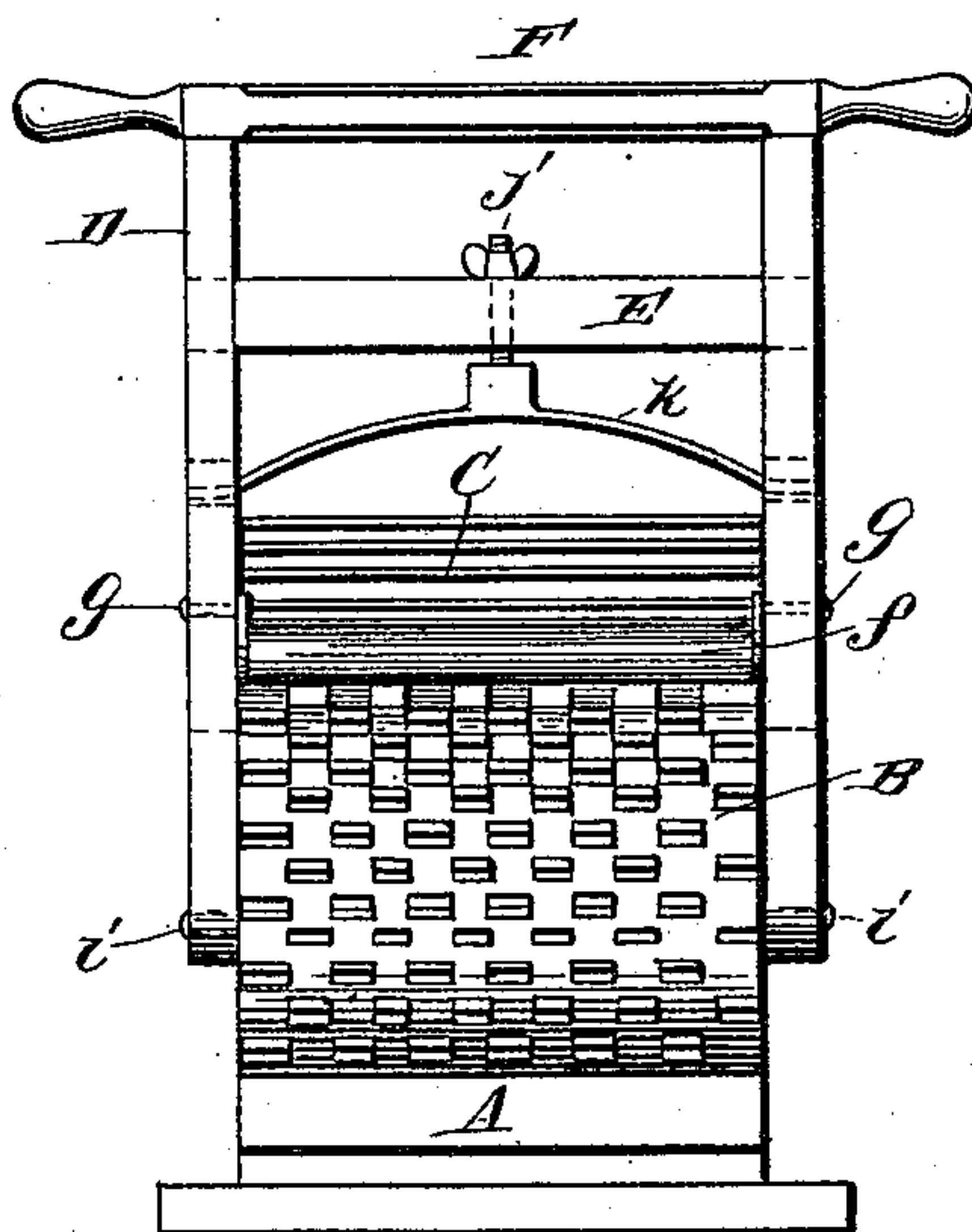


Fig. 2.



Witnesses:
Thos. Storrs,
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Fig. 3.



Inventor:
George H. Purdy
per Edwin Harris,
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE H. PURDY, OF PARKERSBURG, WEST VIRGINIA, ASSIGNOR OF
ONE-HALF TO EDWIN HARRIS, OF SAME PLACE.

MACHINE FOR INDENTING AND CRUSHING MEATS OR LIKE SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 470,258, dated March 8, 1892.

Application filed September 2, 1891. Serial No. 404,560½. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. PURDY, a resident of Parkersburg, in the county of Wood and State of West Virginia, have invented a new and useful Improvement in Machines for Indenting and Crushing Meat and Like Substances; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to machines for indenting and crushing of meats and like substances, its object being to decrease the labor employed in rendering meat more palatable and digestible, which has hitherto generally been accomplished by the pounding of the meat—an operation generally performed by hand. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detailed view in perspective of the entire machine; Fig. 2, a side view of the machine, and Fig. 3 a front view.

Similar letters refer to similar parts throughout the several views.

The base or stand A may rest on a suitable stand, if necessary, secured.

B is a stationary cylindrical surface, either plain, corrugated, or toothed.

C is a cylinder of smaller diameter, corrugated or toothed, revolving on the axis *g*. This axis is journaled in suitable bearing-blocks *h*, said bearing-blocks being adapted to move up and down in the guideways *h'* in the side pieces D of the reciprocating frame. A thumb-screw *j*, working in the cross-bar E of the said frame on the spring *k*, whose ends rest on the bearing-blocks *h*, regulate evenly the distance between the cylinder C and the cylindrical surface B. Any other suitable spring mechanism for regulating the distance between the two cylindrical surfaces may be employed.

The arms D of the frame are journaled at *i*, and are adapted to rock back and forth thereon by means of the handle-bar F. Thus by moving the handle-bar F the cylinder C is made to travel over the serrated face of the cylindrical surface B, the cogs of one meshing in the cogs of the other. The guides *f f* are idle-rollers journaled on the ends of the arms *f'*, said arms being journaled at their

mid-points upon the journal *g* of the cylinder C.

The operation of my device is as follows: The operator first grasps the handle-bar F, and draws down the frame, carrying the cylinder C, with the parts attached thereto, toward the stand or support A. The meat or other substance is then placed upon the cylindrical surface B, said meat or other substance being sufficiently flexible to conform to the shape of the cylindrical surface, and when in position thereon the operator again grasps the handle-bar F to draw the frame carrying the cylinder C to the opposite side of the stand or support A. It is apparent that, since both the cylinder C and the cylindrical surface B are provided with cogs which mesh with each other, as the cylinder C travels over the cylindrical surface B the meat thereon will be indented, so that the fibers and tissues are separated and broken, thereby rendering the meat tender and more palatable. By rocking the frame carrying the cylinder C this operation may be continued as often as may be desired. The idle-rollers *f f* act as guides to hold the meat in place and to prevent it from slipping or from rising above the cylindrical surface B.

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

1. In a machine for indenting and crushing meats or like substances, the combination, with a suitable support, of a curved surface and a rocking frame carrying a cog-faced cylinder, said cylinder being adapted to travel over said curved surface, substantially as and for the purposes set forth.

2. In a machine for indenting and crushing meats or like substances, the combination, with a suitable support, of a cog-faced curved surface, and a rocking frame carrying a cog-faced cylinder, said cog-faced cylinder being adapted to mesh with said cog-faced curved surface, substantially as and for the purposes set forth.

3. In a machine for indenting and crushing meats or like substances, the combination, with a suitable support, of a cog-faced curved surface, a rocking frame carrying a cog-faced cylinder adapted to mesh with said cog-faced

curved surface, and idle-rollers journaled on both sides of said cog-faced cylinder and parallel therewith, whereby the meat is held on said curved surface, substantially as and for
5 the purposes set forth.

4. In a machine for indenting and crushing meats or like substances, the combination of the base or support A, the curved surface B, the arms D, journaled therein, the cylinder
10 C, revolving on the axis *g*, carried by said

arms D, and the arms *f'*, carrying the idle-rollers *f*, substantially as and for the purposes set forth.

In testimony whereof I, the said GEORGE H. PURDY, have hereunto set my hand.

GEORGE H. PURDY.

Witnesses:

E. P. CHANCELLOR,

E. P. CHANCELLOR, Jr.