(No Model.)

J. H. NICKLES, Jr. & G. F. SHIRLEY.

STEAK TENDERER.

No. 525,508. Patented Sept. 4, 1894.

Fig. 1.

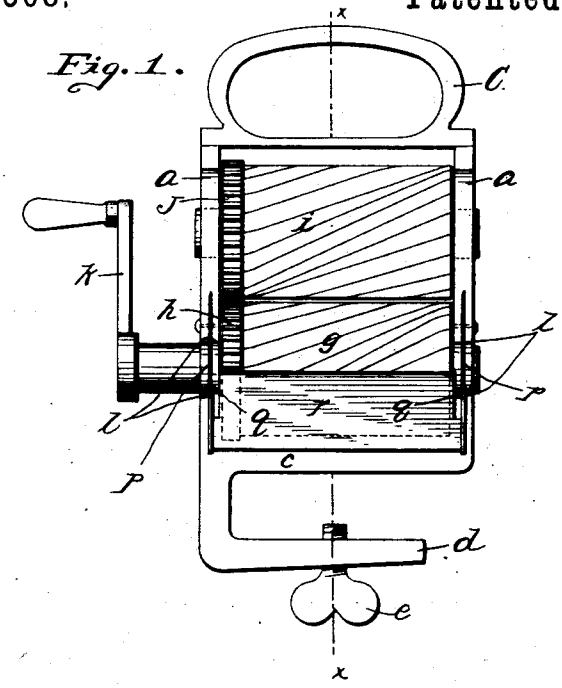


Fig. 2.

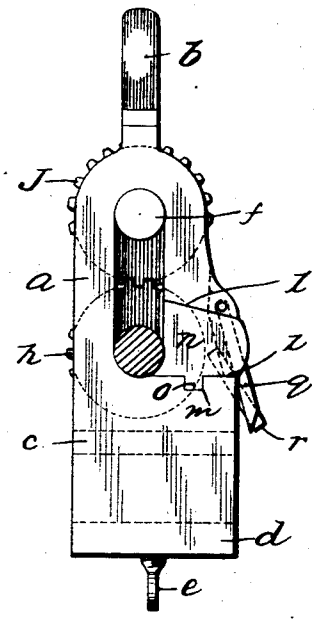
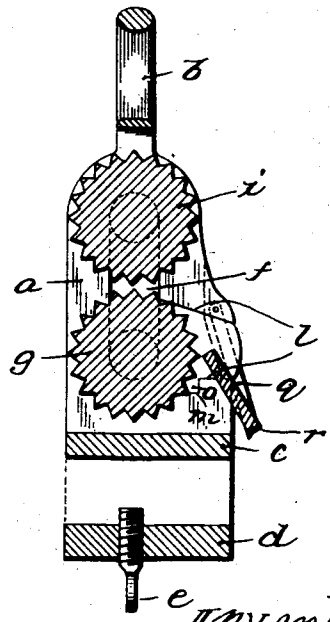


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES H. NICKLES, JR., AND GEORGE F. SHIRLEY, OF HODGES, SOUTH CAROLINA.

STEAK-TENDERER.

SPECIFICATION forming part of Letters Patent No. 525,508, dated September 4, 1894.

Application filed October 19, 1893. Serial No. 488,651. (No model.)

To all whom it may concern:

Be it known that we, JAMES H. NICKLES, Jr., and GEORGE F. SHIRLEY, citizens of the United States, residing at Hodges, in the county of Abbeville and State of South Carolina, have invented certain new and useful Improvements in Steak-Choppers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention is a new "steak or meat tenderer;" and consists in the novel construction and arrangement of its parts.

In the accompanying drawings: Figure 1 is a front elevation of our invention. Fig. 2. is an edge elevation. Fig. 3 is an edge sectional view, cut on the line *x*, *x*, Fig. 1.

Our invention is described as follows: *a*, is the frame; *b*, is the handle; *c*, is the base; *d*, is a clamping arm provided with a thumb-screw *e*, which turns under a table for the purpose of clamping the frame to the same.

In each end of the frame is a vertical slot *f*, in the lower part of which is journaled a corrugated roller *g*, having on one end a cog wheel *h;* and in the upper part of said slots *f*, is journaled a corrugated roller *i*, to one end of which is secured a cog wheel *j*, which meshes with the cog wheel *h*. The axle of the corrugated roller *h*, is provided with a crank handle *k*. Part of the front edges of the side faces in the frame *a*, are cut away forming a dovetail opening *l*, back to the slots *f*. Said openings are provided with lower recesses *m*. Said dovetail openings are provided with dovetail blocks *n*, which run back and form part of the front walls of the slots *f*. Said blocks *n*, are provided with feet *o*, which fit in recesses *m*. Said blocks are put in sidewise while the latch *q* is raised.

The dovetail shape of the openings *l*, blocks *n*, recesses *m*, and feet *o*, prevent the said blocks from slipping out edgewise. The outer ends of said blocks are provided with grooves *p*. In the end pieces of the frame *a*, just above said blocks and in a line with said grooves is pivoted a latch *q*, which drops down in the grooves in the blocks *n*, and prevents the said blocks *n*, from slipping out sidewise.

In the front of the frame and just a little below the center of the roller *g*, is secured an apron *r*, to catch the meat as it comes out from between the rollers.

In putting the rollers in place I raise the latches *q*, slip the blocks *n*, out sidewise, put in the roller *i*, push it up until its journal is in the upper part of the slots *f*, then put in the roller *g*. The cogs of the wheels *h*, *j*, will then mesh and the rollers will come sufficiently near together to cut the steak nearly in two. The teeth of the rollers run spirally and in opposite directions, the object and effect of which is easily seen. When I wish to take the rollers out I raise the latches *q*, take out the blocks *n*, and then the rollers.

Our invention may be constructed without the clamping arm *d*, and may be provided with other means of securing it to any firm place.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the frame *a*, provided with slots *f;* rollers *g*, *i*, journaled in said slots and bearing on their ends cog wheels *h*, *j*, meshing with each other, the axle of said roller *h*, bearing the crank handle *k;* the side pieces of said frame having the dovetail openings *l*, and recesses *m;* blocks *n*, having in their front ends grooves *p*, and on their lower edges feet *o;* said blocks adapted to fit in openings *l;* latches *q*, pivoted in the end pieces of the frame and adapted to fit in the grooves *p*, of the blocks *n*, substantially as shown and described and for the purposes set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES H. NICKLES, JR.
GEORGE F. SHIRLEY.

Witnesses:
McNARRY COCHRAN,
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