A. ISKE & J. O. STEINHEISER.

Improvement in Bread-Slicing Machines.

No. 127,242. Patented May 28, 1872.

Fig. 1

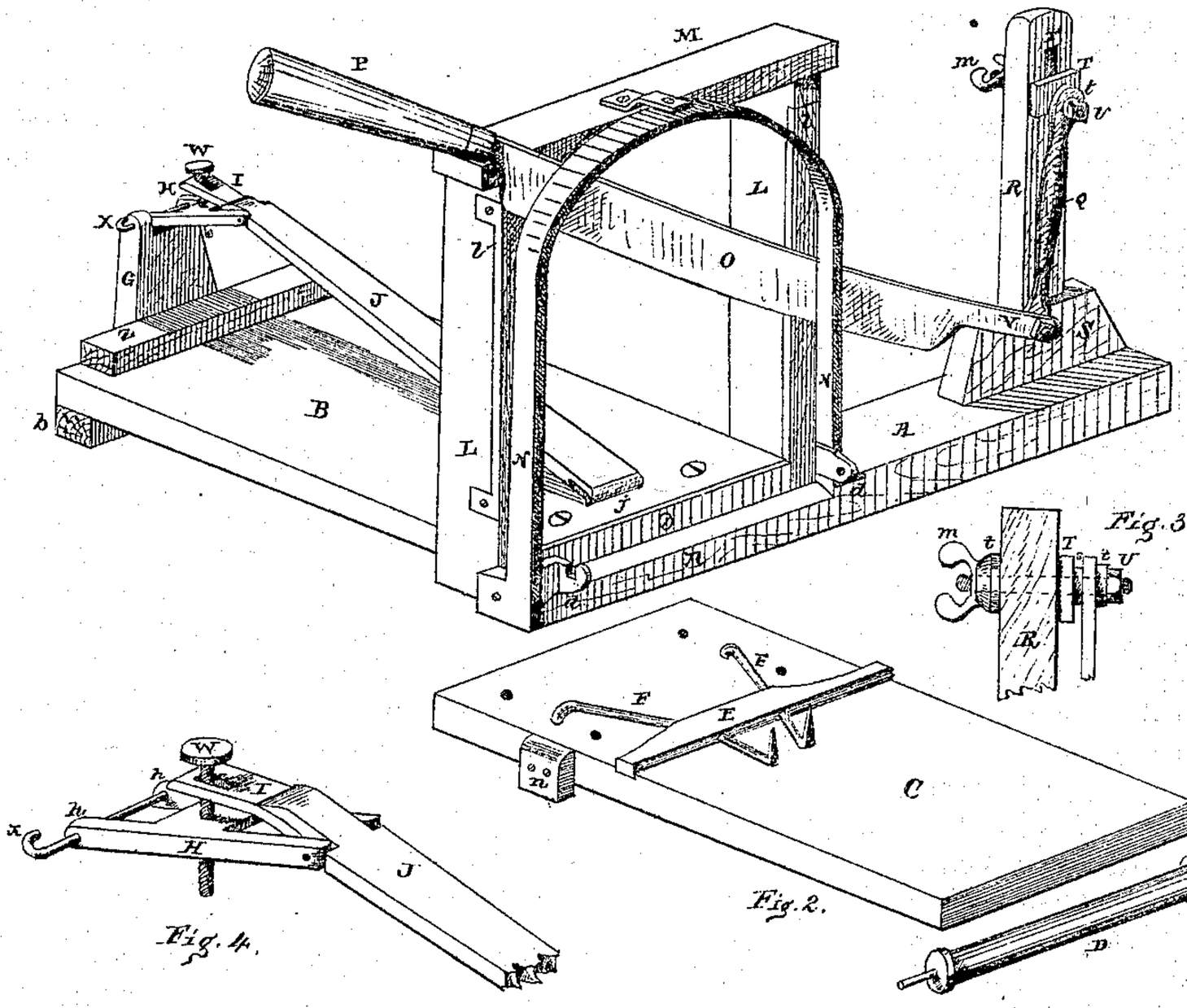

Fig. 3.

Fig. 4.

Fig. 2.

Witnesses.

Thos. F. McElligott

Jacob Stauffer

Inventors.

Anthony Iske

J. O. Steinheiser.

UNITED STATES PATENT OFFICE.

ANTHONY ISKE AND JACOB O. STEINHEISER, OF LANCASTER, PA.

IMPROVEMENT IN BREAD-SLICING MACHINES.

Specification forming part of Letters Patent No. 127,242, dated May 28, 1872.

Specification describing certain Improvements in a Machine for Cutting or Slicing Bread, Dry Beef, &c., the joint invention of ANTHONY ISKE and JACOB O. STEINHEISER, of the city of Lancaster, in the State of Pennsylvania.

The first part of our invention relates to the combination of the heel of the knife in its pivoted connection with a vertical slotted post, for producing a sliding cut and adjusting the straight blade of the knife either to cut clean all its length upon the sliding table, when used, or on the fixed table itself. The second part of our invention relates to the adjusting hinge and screw to the feed-bar, which can regulate the slicing to a uniform thickness, however thin or otherwise.

The accompanying drawing, with letters of reference, clearly show the parts making a part of this specification, in which—

Figure 1 is a perspective drawing of all the the parts attached in place; Fig. 2, the sliding table C with the roller D detached from its bearings *d d;* Fig. 3, a side view of the thumb-screw *m*, washers, &c.; Fig. 4, the hinged feed-bar in part.

A shows a cross-piece or base, which, with the frame L M L and frame N, (between which the knife-blade O is held and guided in its vertical and sliding movement while cutting,) also the slotted post or upright R, may be cast in a single piece and made rounded above or ornamental in design. On one side, and at right angles to the said cross-piece A, a table, B, is attached by screws or otherwise. *b* shows the foot or raised end. *z* is a cross-ledge the height of a sliding table, C, which extends forward beyond the lower table B and rests on a roller, D, having side flanges, and which can be lifted out of its bearings *d*. This sliding table C has hooked holders F F *f f* passing through a cross-piece, E. These wires or hooks F are bent down at right angles at one end to fit into holes made at regular intervals into the table C, which holds them in place, the front end being bent up and pointed at *f f* to hold any object put on the sliding table. The cross-piece E is so adjusted that in coming forward with the table C it comes in contact with the uprights L, so as to prevent the points *f f* from coming under the knife-blade. R shows an upright with a vertical slot, *r*, and base S. The heel *v* of the knife O is connected by a pivot-bolt and nut to an arm, Q, which arm is at its upper end connected by a pivot-bolt (which bolt has a shoulder, *s*, and nut *u* on one side) with a corrugated washer, T, for clamping against the face of the post R, the bolt having flat sides to prevent its turning in the slot of the post, washers *t*, and thumb-screw *m* for relaxing or tightening the bolt, the arm Q moving on the stationary bolt. By this arrangement the knife *o* swings freely between the guides L N vertically, and by the link or arm connection Q a quarter-circular motion is had, so that by a backward and downward pressure of the handle P a draw or sliding cut is made, so as to bring the blade square down upon the table and secure a clean cut along the edge of the cross-piece in a line with the knife-blade, or down upon the sliding table C, when used, by means of the adjustment on the slotted upright R. The feed arrangement, supported on G, centrally, on the rear end of the table, consists of a plate, H, held by a rod, *x*, passing through the boxed-out top of G and holes in the projecting sides *h*, with a central portion, H, for a female screw or thread for the adjusting-screw W. The sides of the plate H form arms, by which they are pivoted to the feed-bar J, the one end of which has a slotted plate, I, through which the screw W also passes. On the forward end of the feed-bar is a propelling-plate, *j*. The headed screw W is of sufficient length to allow the desired degree of adjustment, so that in raising the feed-bar J and pushing back, and allowing the front edge to touch the sliding table or object upon it, it will be propelled forward the length of the play allowed between the head of the screw W and hinged plate H. The connection of the slotted plate I and hinged plate H with the feed-arm J being so as to both draw it back and to propel it forward, by raising and lowering the same in contact with the sliding table, which latter yields readily over the front roller D, feeding the article to be cut forward equidistant on each motion, so that dry beef can be cut or sliced the thickness of paper, or bread cut half an inch thick with ease; in short, it is applicable for slicing Bologna, apples, potatoes, or anything of the kind usually sliced for culinary purposes.

We are aware that various devices are used

to accomplish the same thing—where one end of the knife is pivoted to the lever and the other is guided by an inclined slot, so as to give the knife a draw cut—as well as other modes, which we do not claim.

We are not aware that an upright slotted adjusting arrangement, in combination with a connecting arm with the heel of the knife, leaving the knife free at all other points, has ever been used, nor of the sliding table and feed arrangement, as herein shown. The catch Y on the top of the guides L M is simply to hold them, and for turning up the knife out of the guides for sharpening without removing the pivot-bolt *v*.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The corrugated clamp-washer T, thumb-screw *m*, and nut *u*, in combination with a slotted standard, R, for adjusting the heel of the knife O on its connection Q, all arranged on the base A with its guides L M N, in the manner shown, for the purpose specified.

2. In combination with the cross-piece A and its appliances, above specified, we claim the table B with its upright G for the hinged piece H, connected with the feed-bar J, made adjustable by the headed screw W and slotted plate I, operated substantially in the manner and for the purpose set forth.

3. In combination with the fixed bearings *d* on the base A, we claim the detachable flanged roller D, when used with the extra sliding table C with its side guides *n* to fit upon the table B, in the manner and for the purpose men tioned.

4. In combination with the holes in the table C, we claim the arresting cross-piece E with its points *f f*, and extensions F F inserted into said adjusting-holes, applied in the manner and for the purpose mentioned.

ANTHONY ISKE.
J. O. STEINHEISER.

Witnesses:
THOS. F. MCELLIGOTT,
JACOB STAUFFER.