No. 834,849. PATENTED OCT. 30, 1906.

M. A. ROLLMAN.

SECURING DEVICE.

APPLICATION FILED MAR. 7, 1904.

2 SHEETS—SHEET 1.

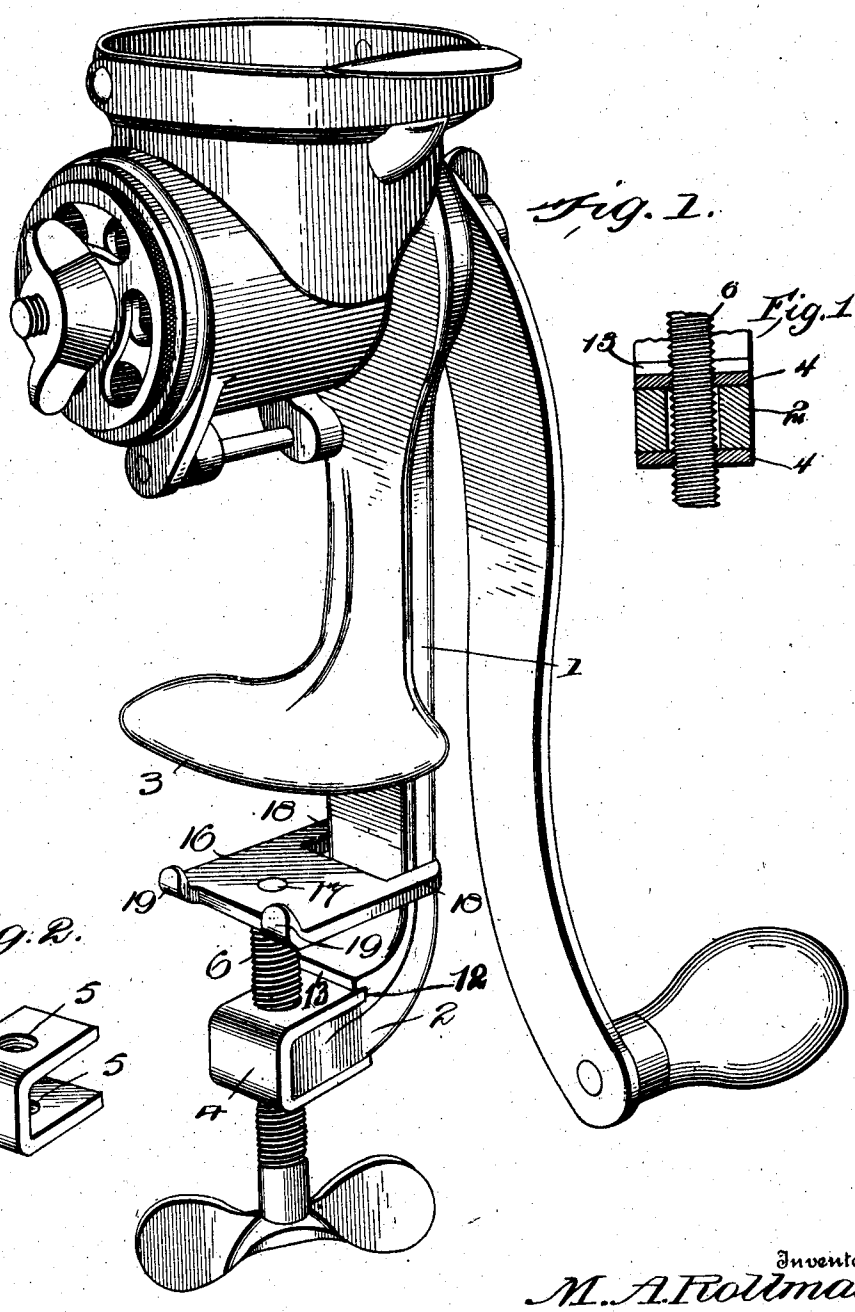


Fig. 1.

Fig. 1a.

Fig. 2.

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Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

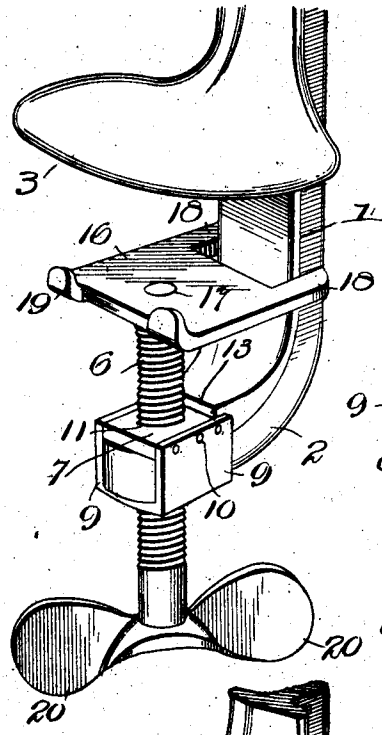


Fig. 4.

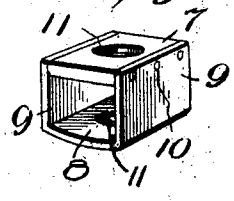


Fig. 7.

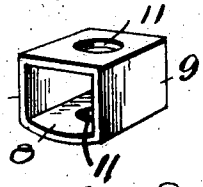


Fig. 8.

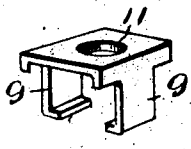


Fig. 5.

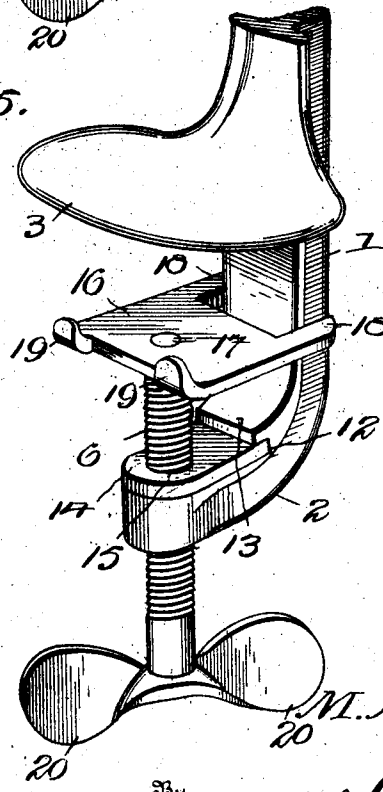
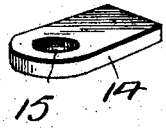


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

MICHAEL A. ROLLMAN, OF MOUNT JOY, PENNSYLVANIA, ASSIGNOR TO THE ROLLMAN MANUFACTURING CO., A CORPORATION OF PENNSYLVANIA.

SECURING DEVICE.

No. 834,849. Specification of Letters Patent. Patented Oct. 30, 1906.

Application filed March 7, 1904. Serial No. 196,926.

To all whom it may concern:

Be it known that I, MICHAEL A. ROLLMAN, a citizen of the United States, residing at Mount Joy, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Securing Devices; and I 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.

My present invention relates to clamps or securing devices for holding any variety of grinding-machine to a supporting-bracket or edge of a table, whereby said mill or the like may be readily mounted in its operative position and removed therefrom, as desired; and my invention consists of certain novel features of construction and combination of elements, as will be hereinafter set forth in detail, and pointed out in the appended claims.

The object of my invention is to reduce the cost of manufacture both in respect to dispensing with expensive machinery and in reducing to a minimum the amount of shop room required for the performance of the work.

Other objects and advantages arising therefrom will be hereinafter clearly presented, attention being called to the accompanying drawings, in which—

Figure 1 shows a perspective view of my invention as applied to use upon a meat-grinding machine, commonly designated a "food-chopper." Fig. 1^b is a detail vertical section showing the support for the clamping-screw. Fig. 2 is a perspective detail view of my invention separated from the arm. Figs. 3 and 5 show other forms of my invention as applied to use, while Figs. 4 and 6 show the parts illlustrated in Figs. 3 and 5, respectively, separated from the arm. Figs. 7 and 8 show another form of the device illustrated in Fig. 4.

It may be stated in this connection that while I have shown my improved clamp as applied to a meat-grinding machine it will be understood that its application to any variety of machine which it is desired to temporarily or permanently secure to the edge of a table or other support is comprehended by me, as upon all manner of food-choppers, coffee-mills, and special devices, as will be readily appreciated.

In exemplifying or materializing my invention it will be observed that the supporting-standard 1, common to machines of the character specified, carries at its upper end the casing or body portion of the machine proper, while the lower end is provided with the curved arm or branch 2, constituting one of the fixed jaws, there being two of the fixed jaws, the upper one being designated by the numeral 3.

I especially shape or fit the member 2 during the casting process whereby it will coöperate with and carry a member of special form and construction, as will be hereinafter set forth, said member having a threaded aperture or registering threaded apertures to receive the clamping-screw, and referring specifically to the construction illustrated in the drawings it will be observed in Fig. 1 that I have so shaped the arm 2 that it will loosely fit between the top and bottom plates or branches of the "U-shaped" member 4, said member having a registering threaded aperture 5 in the upper branch thereof, said registering aperture being designed to receive the threaded clamping-screw 6.

It will be understood that in addition to properly shaping the member 2 to receive the substantially U-shaped member 4 I also provide an aperture therein of proper location to register with the threaded aperture 5 when the U-shaped member is disposed in its operative position. The opening in the member 2 for the reception of the threaded clamping-screw is of proper size to loosely receive said screw, whereby it will not engage the walls thereof, but will only engage the threaded aperture 5 in the U-shaped member above described.

In Figs. 3 and 5 I have shown a slightly-different form or materialization of the same idea.

In Figs. 3 and 4 it will be observed that the member 2 is properly shaped during the molding process to receive a box-like member comprising the upper plate 7 and the lower plate 8, said lower plate being the central portion of a piece of light sheet metal the outer ends of which are properly bent and shaped to form the parallel side walls 9,

the edges of which are connected to a contiguous part of the heavy plate 7, or it is obvious that all of said parts may be formed integral with each other, as shown in Fig. 7 and as by properly forging the same, whereby there will be no riveting or special juncture of the parts, as indicated by the numeral 10, and I therefore reserve the right to form the box-like member or housing for the member 2 in any preferred way.

It will be observed that the parts indicated by the numerals 7 and 8 are each provided with an aperture, the apertures being threaded, as designated by the numeral 11, said apertures being disposed in registration with each other and in registration with a hole formed in the member 2 of proper size to loosely receive the threaded clamping-screw 6, which latter is disposed in engagement with and controlled by the threaded aperture 11 in the same manner as said bolt is engaged by the threaded aperture 5 in Figs. 1 and 2.

In Figs. 1 and 5 it will be observed that the arm 2 is so shaped during the molding process that it will be provided with the recess 12, which is formed by the overhanging lip 13. In Fig. 5 the recess 12 is designed to receive the inner edge of the plate 14, in the outer end of which I form the threaded aperture 15, intended to receive the threaded clamping-screw 6, the object of said recess and overhanging lip 13 being to reliably hold the plate 14 against movement, inasmuch as said clamping-screw passes loosely through a hole in the member 2, as before explained.

It will be observed that I have provided a special form of member for coöperating with the upper end of the clamping-screw, said member comprising the body portion or plate 16, having an aperture designed to loosely receive the reduced end 17 of the clamping-screw, said plate also having the extensions 18 disposed upon either side of the standard 1 and intended to hold the plate against rotation. The outer edge of the clamping-plate 16 carries a plurality of teeth, each being designated by the numeral 19, said teeth being intended to take into a contiguous part of the lower surface of the shelf or other support to which the mill is to be temporarily or permanently attached.

I have fully set forth and claimed the construction presented in the special form of clamping-plate 16 in another application for United States patent filed February 18, 1904, and bearing the Serial No. 194,251.

The clamping-screw 6 is provided at its lower end with suitable thumb-wings, said wings in this instance being designated by the numeral 20 and are formed in any preferred way and suitably connected to the end of said screw, whereby it may be rotated in either direction.

By reference to the drawings it is thought that all the details of construction and the manner of applying the same to practice have been made entirely clear, and further description is therefore deemed unnecessary. Inasmuch as various modifications and equivalent construction may be improvised from or suggested by the showing which I have herein presented, I wish to comprehend all reasonable changes, modifications, and equivalents which may be regarded as falling fairly within the scope and spirit of my invention, as, since my main purpose, as before explained, is to dispense with the necessity of providing a threaded aperture in the casting *per se* and permit the clamping-screw to pass loosely through a hole formed during the casting process, any suitable device for holding the clamping-screw in coöperation with the arm is comprehended by me.

Believing that the advantages and construction of my invention have thus been made clearly apparent, further description is dispensed with.

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

1. A securing device comprising a supporting-standard constructed in one piece with an upper jaw and an arm extending to a point beneath the upper jaw having a plain vertical opening and a recess providing an overhanging lip, a top plate seated upon the arm beneath the upper jaw having a screw-threaded opening and its inner end fitting in the recess and interlocking with the lip, a clamping-screw extending loosely through the plain opening of the arm and working in the screw-threaded opening of the top plate and a movable jaw mounted upon the upper end of the clamping-screw.

2. A securing device comprising a supporting-standard constructed in one piece with an upper jaw and an arm extending to a point beneath the upper jaw having a plain vertical opening and a recess providing an overhanging lip, a top plate seated upon the arm beneath the upper jaw having a screw-threaded opening and its inner end fitting in the recess and interlocking with the lip, a bottom plate connected with the top plate fitting beneath the arm and having a screw-threaded opening, a clamping-screw extending loosely through the plain opening of the arm and working in the screw-threaded openings of the top and bottom plates, and a movable jaw mounted upon the upper end of the clamping-screw.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MICHAEL A. ROLLMAN.

Witnesses:
W. E. HOFFMAN,
HENRY M. STAUFFER.