

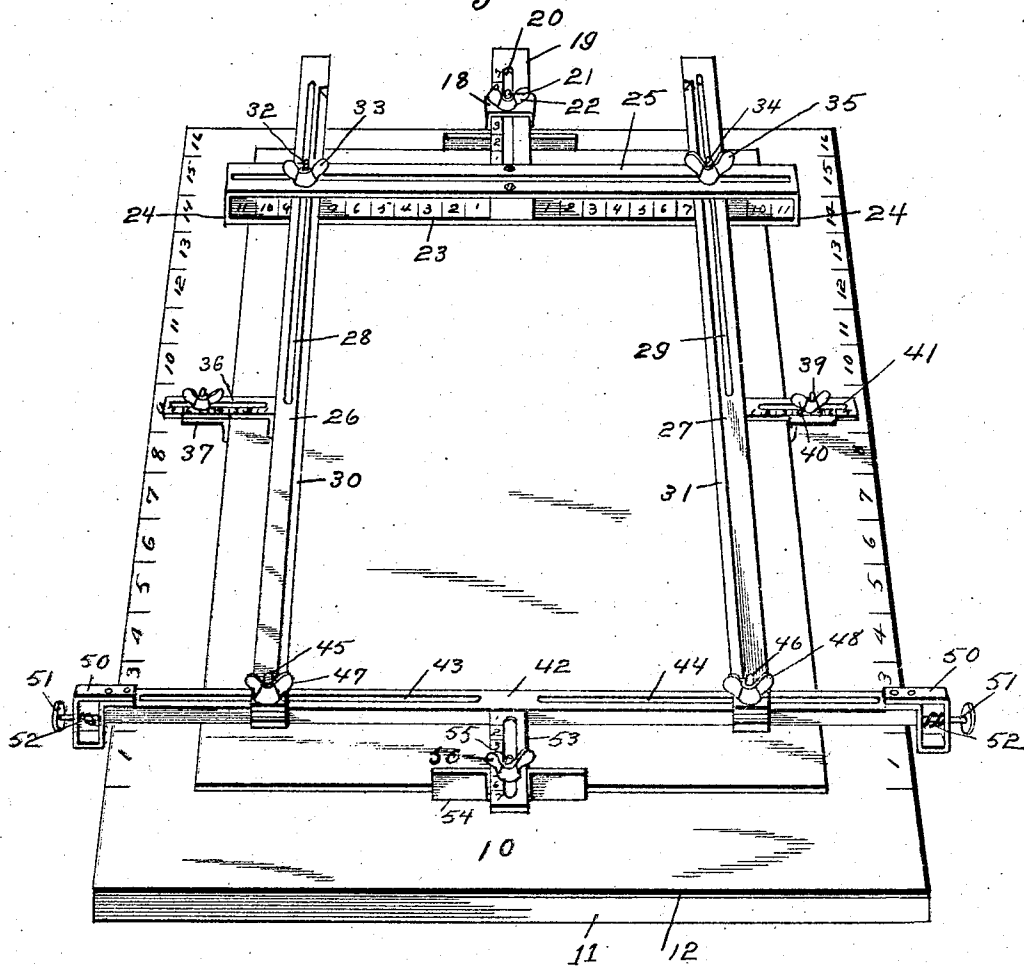
W. W. CAMPTON & G. A. BEEM.

CUTTING BOARD.

APPLICATION FILED JUNE 1, 1904.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

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2 SHEETS—SHEET 2.

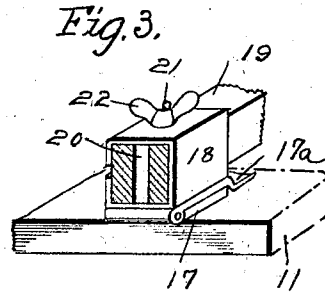
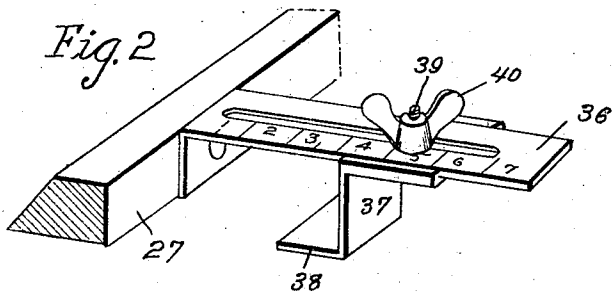


Fig. 4.

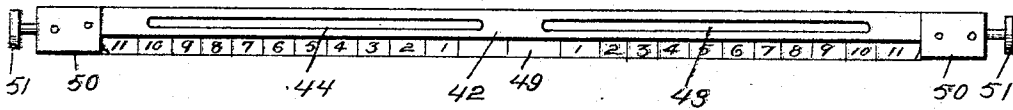


Fig. 5.

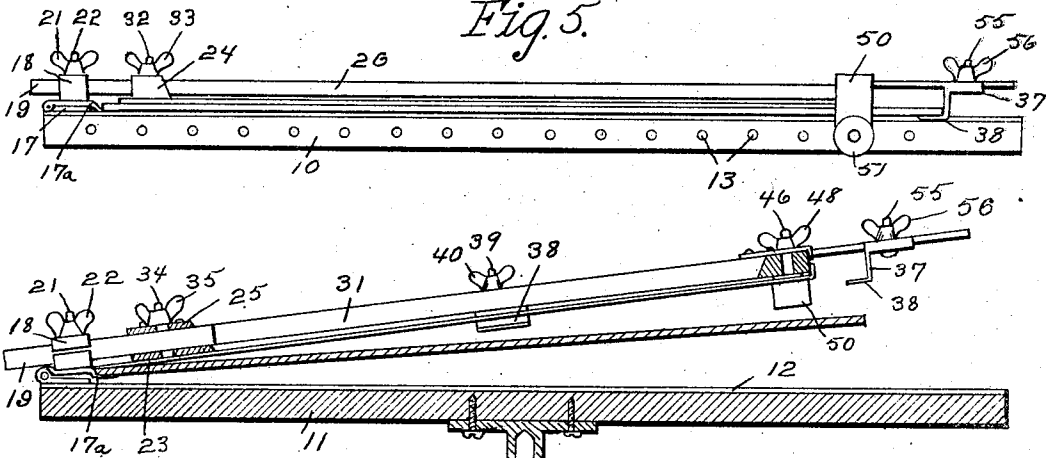
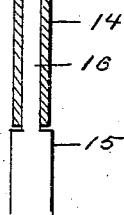


Fig. 6.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILBUR W. CAMPTON AND GLENN A. BEEM, OF DES MOINES, IOWA.

## CUTTING-BOARD.

SPECIFICATION forming part of Letters Patent No. 787,724, dated April 18, 1905.

Application filed June 1, 1904. Serial No. 210,698.

*To all whom it may concern:*

Be it known that we, WILBUR W. CAMPTON and GLENN A. BEEM, citizens of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Cutting-Board, of which the following is a specification.

The objects of our invention are to provide a cutting-frame for picture-mats and analogous articles of simple, durable, and inexpensive construction which is so constructed as to be adapted for use on mats of any desirable size and one which can be used in cutting the outside of the picture-mat to make it conform with the contour of the frame in which it is to be placed and also be used in cutting out the central portion of the mat in such a way that beveled inner portions of the mat may be cut evenly and smoothly throughout the entire inner portion of the mat.

A further object is to provide a frame for cutting picture-mats in which the adjustable parts are so arranged that when they have been once adjusted to a desirable position any number of mats with an opening of the size which would be cut by using the frame in one position of its adjustment without readjusting the frame and by simply removing the mat which has been cut and placing a new one in position in the frame. This is done by simply swinging the upper portion of the frame on its hinge and withdrawing the mat when the upper portion of the frame is raised and then placing a new cardboard or mat to be cut in the frame and locking it in that position by the means hereinafter described.

A further object is to provide measuring devices on the device so arranged that the parts can be easily and readily adjusted so that the cardboard or mat can be cut in any desired place and of any desirable size and without the necessity of measuring the mat.

Our invention consists in certain details in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in our claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows in perspective the complete cutter-frame. Fig. 2 is a detail view of one

of the end knife-guides, showing the way in which the guide is beveled. Fig. 3 is a detail view of the hinge upon which all of the knife-guides forming the upper portion of the frame swing. This shows in section a support upon which the knife-guides are connected. Fig. 4 is a detail view of the knife-guide at the left end of the cutter-frame, showing the beveled portion thereof and the numerals printed on it for determining the distance for adjusting the side knife-guides. Fig. 5 is a side elevation of the complete cutter-frame in position for use, and Fig. 6 is a longitudinal sectional view of the cutter-frame.

Referring to the accompanying drawings, we have used the reference-numeral 10 to indicate the cutting-board, which is made rectangular in shape and of any desirable material. Preferably, however, the bottom portion 11 of the cutting-board 10 is made of wood, and a covering 12 for the entire portion 11 is preferably made of zinc, so that even though the cutting-knife often engages the surface of this zinc in cutting will not become dulled by the use of this metal and at the same time this covering 12 forms a smooth even surface upon which the mat can be placed.

Near the side edges of the cutter-board and on the covering 12 we have provided measuring devices, which are marked off in spaces, and the spaces are designated by numerals, so that the distance through which the end knife-guides are moved or are to be moved can be easily determined. We have also provided a series of openings 13 in each side of the bottom 11 of the cutting-board 10, into which a portion of the locking mechanisms for the left-end knife-guide are designed to enter, as hereinafter more fully set forth.

Attached to the bottom of the cutting-board 10 is a bearing 14, which is mounted upon a standard 15, having a bearing 16 at its upper portion to enter the bearing 14. By using these bearings in the construction of the device it can be easily turned from one position to another, so that it is adapted to be used by the operator standing in a single position.

Throughout the specification we have termed the "right" end of the machine that which is at the right hand of the operator as he stands

in position for cutting when the numerals are directly in front of them, so that they can be read easily by him.

Attached to the right end of the cutting-board is the hinge 17, which has the collar 18 attached to its upper portion. The inner end of that portion of the hinge which is attached to the cutting-board 10 is bent downwardly at 17<sup>a</sup> to form a mat-retaining device which is designed to engage one end of the mat when it is in position on the cutting-board.

Slidingly mounted in the collar 18 is the supporting member 19, having a slot 20 extending longitudinally of it and of the cutting-board. Extending through the upper and lower portion of the collar 18 and through the slot 20 in the supporting member 19 is the bolt 21, having the thumb-screw 22 on the screw-threaded portion of it which is above the collar 18. This bolt and thumb-screw are so arranged that by turning the screw down on the screw-threaded portion of the bolt the supporting-piece will be held firmly against longitudinal or lateral movement, and when the thumb-screw is unscrewed the supporting member 19 will be allowed to move freely in the collar 18, thus making the supporting member 19 adjustable relative to the collar 18. On one side of the upper portion of the supporting member 19 is a series of indicating-marks with numerals between them so arranged that the distance of adjustment can be easily determined without using any additional measuring device. It will be seen that inasmuch as the collar 18 is adapted to the upper portion of the hinge 17 and the lower portion of the hinge 17 is attached to the upper portion of the cutting-board 10 and the supporting member 19 is adjustably connected with the collar 18 this supporting member is capable of swinging pivotally toward or away from the cutting-board.

Attached to the extreme left inner end of the supporting member 19 is a knife-guide, which has a slotted bottom 23, two end portions 24, and a slotted top portion 25, substantially parallel with the bottom portion 23. The slotted bottom portion 23 has a series of indicating-marks on each side of its central portion with numbers between said marks to designate the distance between each one of them and to designate the distance from the central portion of this knife-guide, so that the knife-guides which are at the side of the machine and described hereinafter can be easily adjusted at a distance from the center of the knife-guide, which is attached to the supporting member 19, and the distance can be readily and easily ascertained. The bottom portion 23 extends a slight distance nearer the central portion of the cutting-board than does the top portion 25, and the inner edges of the bottom portion 23 and the top portion 25 are beveled, so that as a knife rests against the inner beveled edges of these portions and is

drawn longitudinally of this knife-guide the mat which is placed beneath this guide will have the edge which is cut by the knife beveled.

Extending between the top portion 25 and the bottom portion 23 of the knife-guide, which is attached to the supporting member 19 and on each side of said supporting member, are the knife-guides 26 and 27, having the slots 28 and 29 extending longitudinally of them and throughout a greater portion of their length. Each of these knife-guides has a beveled inner edge. This beveled inner edge on the knife-guide 26 we have designated by the numeral 30 and on the guide 29 by the numeral 31. Passing through the slot in the top portion of the guide-rail, which is attached to the supporting member 19, and through the slot 28 in the knife-guide 26, is the bolt 32, having a screw-threaded upper portion and a thumb-screw 33, mounted on said screw-threaded portion. A bolt 34, similar to the bolt 32, passes through the slot in the knife-guide, which is attached to the supporting member 19 on the opposite side of said member from the bolt 32, which passes through the slot 29 in the knife-guide 27, and the thumb-screw 35 is on the screw-threaded upper portion of this bolt 34.

It will be seen on account of the above arrangement of parts that the knife-guides 26 and 27 are capable of adjustment relative to the knife-guide, which is attached to the supporting member 19 and longitudinally of the cutting-board 10.

Attached to the central portion of the knife-guide 26 and extending from its outside portion is a mat-retaining device comprising a slotted body portion 36. Mounted beneath the body portion 36 is the mat-engaging member 37, which is capable of longitudinal movement relative to the body portion 36. The lower portion of this mat-engaging member 37 has an inwardly-extending flange 38, which is at right angles to the body portion of the mat-engaging member and substantially parallel with the body portion 36 of the mat-retaining device. The mat-engaging member 37 is adjustably secured to the body portion 36 of the mat-retaining device by means of the bolt 39, which passes through the upper portion of the mat-engaging member 37 and through the slot in the body portion 36. A thumb-screw 40 is mounted on the screw-threaded portion of the nut 39.

We have attached to the outside of the knife-guide 27 a mat-retaining device similar in construction to the mat-retaining device attached to the knife-guide 26, and for the sake of convenience we have designated this by the numeral 41. A further description of the mat-retaining device 41 is deemed unnecessary, owing to the fact that its construction is like that of the mat-retaining device attached to the knife-guide 26. These mat-retaining de-

5 vices have their parts adjustable, so that when the knife-guides are in position and the retaining devices are placed against the outside edge of the mat to be cut the knife-guides 26 and 27 can be moved inwardly or outwardly a slight distance relative to the edge of the mat, so that the opening in the central portion of the mat can be made larger or smaller in a mat of a given size.

10 Slidably mounted in the left ends of the knife-guides 26 and 27 is the knife-guide 42, having the slots 43 and 44 extending through it. This knife-guide 42 is secured to the knife-guides 26 and 27 by means of the bolts 45 and 46, which have the thumb-screws 47 and 48, respectively, on their upper portions. The inner edge of the knife-guide 42 is beveled at 49, and on this beveled edge there are two series of indicating-marks with numerals to designate the space between these marks. One series of marks is immediately in front of the slot 43 and the other series of marks is in front of the slot 44. These series of marks are so arranged that the distance of the side bars from the central portion of the knife-guide 42 can be easily and readily ascertained.

Attached to each end of the knife-guide 42 is a locking mechanism 50, designed to secure the knife-guide 42 in position relative to the cutting-board 10. Each of these locking mechanisms 50 has a pin 51 extending through it, which are designed to enter in the openings 13 in each side of the cutting-board. A spring 52 is mounted on each of the pins 51 and is designed to normally hold said pins when in the openings 13 or in engagement with the sides of the cutting-board 10. It will be seen that on account of the arrangement of the locking mechanism 50 the knife-guide 42 can be adjusted longitudinally of the cutting-board 10 and maintained firmly in position relative to the cutting-board. The proper positioning of the knife-guide 42 can be easily ascertained by the series of indicating marks and numerals on each side of the cutting-board.

Attached firmly to the outer side of the knife-guide 42 is a mat-retaining device having the slotted upper portion 53, in which it has a series of indicating-numerals on its upper portion. Adjustably connected with the slotted portion 53 is the mat-engaging member 54, which is secured to the slotted portion 53 by means of the bolt 55 and the thumb-screw 56. By adjusting the portion 54 longitudinally of the body portion 53 the distance between the mat-engaging member 54 and the inner portion of the knife-guide 42 can be easily and readily determined.

Inasmuch as the parts of the upper portion of the framework are connected with the supporting member 19, which is hinged to the cutting-board 10, the entire frame is capable of being swung pivotally toward or away from the cutting-board 10.

65 In practical operation the parts of the de-

vice above described can be adjusted to cut mats of various sizes and shapes and to cut away the central portion of these mats in a desirable way by adjusting the various parts of the device. The mat is first placed upon the cutting-board 10, and the mat-retaining devices are then adjusted so that that portion of the mat which is inside of the knife-guides is in position and being cut, and a knife is drawn around the inside portion of the knife-guides. The outside portion of the mat having thus been cut, the knife-guides and the mat-retaining members are adjusted to hold the mat in position relative to these guides and to form an opening and to be adjusted to a position where the central portion of the mat may be cut away to obtain the opening therein of the desired size. The size of this opening is easily determined by the various indicating-marks which have been above described. In cutting the central portion of the picture-mat out the knife rests flatly against the beveled portion of these guides, and thus the edges of the mat which form the sides of the central opening are beveled, as is customary in common practice. When one side of the mat has been cut by the operator drawing his knife along the beveled portion of the guide which is nearest him, the cutting-board is turned on its bearing to a position where the ends and other side can be easily reached without the operator changing his position. Before the material has been cut the knife-guides are swung on their hinge from their raised position, in which they are placed before putting the mat on the cutting-board to a point where they engage the upper portion of the mat, and then they are secured in position relative to the cutting-board by means of the locking devices 50, which are made in any desirable way provided that they hold the knife-guide 42 and the other knife-guides firmly in position relative to the mat, so that it will be held firmly between the knife-guides and the cutting-board, and there will be no danger of the mat slipping when in this position while the cutting operation is being carried on.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States therefor, is—

1. A cutting-board, adjustable knife-guides having beveled inner edges, means for pivotally securing the knife-guides to one end of the cutting-board, a spring-actuated locking mechanism for securing the knife-guides to the other end of the cutting-board.

2. A rotatably-mounted platform, a metal surface on the platform, two beveled knife-guides extending longitudinally of the cutting-board, two beveled guides extending across the cutting-board and connected with the knife-guides, extending longitudinally of the cutting-board, means for securing these guides adjustably together, mat-retaining devices

- connected with the knife-guides, means for pivotally supporting the knife-guides and means for locking the knife-guides in position against the cutting-board, for the purposes stated. 5
3. A rotatably-mounted platform, a metal surface on the platform, two beveled knife-guides extending longitudinally of the cutting-board, two beveled guides extending across the cutting-board and connected with the knife-guides, extending longitudinally of the cutting-board, means for securing these guides adjustably together, mat-retaining devices connected with the knife-guides, means for pivotally supporting the knife-guides, means for locking the knife-guides in position against the cutting-board, and measuring devices at the edges of the cutting-board and on the knife-guides which extend transversely of the cutting-board. 10 15 20
4. A rotatably-mounted platform, a metal surface on the platform, two beveled knife-guides extending longitudinally of the cutting-board, two beveled guides extending across the cutting-board and connected with the knife-guides extending longitudinally of the cutting-board, means for securing these guides adjustably together, mat-retaining devices connected with the knife-guides, means for pivotally supporting the knife-guides, means for locking the knife-guides in position against the cutting-board, measuring devices at the edges of the cutting-board and on the knife-guides which extend transversely of the cutting-board, and a measurer on each of the mat-retaining devices. 25 30 35
5. A cutting-board, knife-guides connected with each other and hinged to the cutting-board, and spring-actuated means for securing the knife-guides in position relative to the cutting-board. 40
6. A cutting-board, knife-guides connected with each other and hinged to the cutting-board, spring-actuated means for securing the knife-guides in position relative to the cutting-board, and means for holding a mat in position relative to the knife-guide. 45
7. A cutting-board, knife-guides connected with each other and hinged to the cutting-board, spring-actuated means for securing the knife-guides in position relative to the cutting-board, and adjustable mat-retaining means connected with the knife-guides. 50
8. A cutting-board, knife-guides, and spring-actuated means for securing the knife-guides to the cutting-board. 55
9. A cutting-board, knife-guides, spring-actuated means for securing the knife-guides to the cutting-board, and means connected with the knife-guides for holding a mat against lateral or longitudinal movement of the cutting-board. 60
10. A cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, and means for securing the adjustable knife-guides in position relative to each other. 65
11. A cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, means for securing the adjustable knife-guides in position relative to each other, and adjustable means for securing a mat in position relative to the knife-guides. 70 75
12. A cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, means for securing the adjustable knife-guides in position relative to each other, and measuring devices for determining the adjustment of the knife-guides toward or away from each other. 80 85
13. A cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, means for securing the adjustable knife-guides in position relative to each other, adjustable means for securing a mat in position relative to the knife-guides, and measuring devices for determining the adjustment of the knife-guides toward or away from each other. 90 95
14. A rotatably-mounted cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, and means for securing the adjustable knife-guides in position relative to each other. 100
15. A rotatably-mounted cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, means for securing the adjustable knife-guides in position relative to each other, and adjustable means for securing a mat in position relative to the knife-guides. 105 110
16. A rotatably-mounted cutting-board, knife-guides adjustably connected with each other, pivotally connected with the cutting-board, spring-actuated means for securing the knife-guides to the cutting-board, means for securing the adjustable knife-guides in position relative to each other, and measuring devices for determining the adjustment of the knife-guides toward or away from each other. 115 120

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