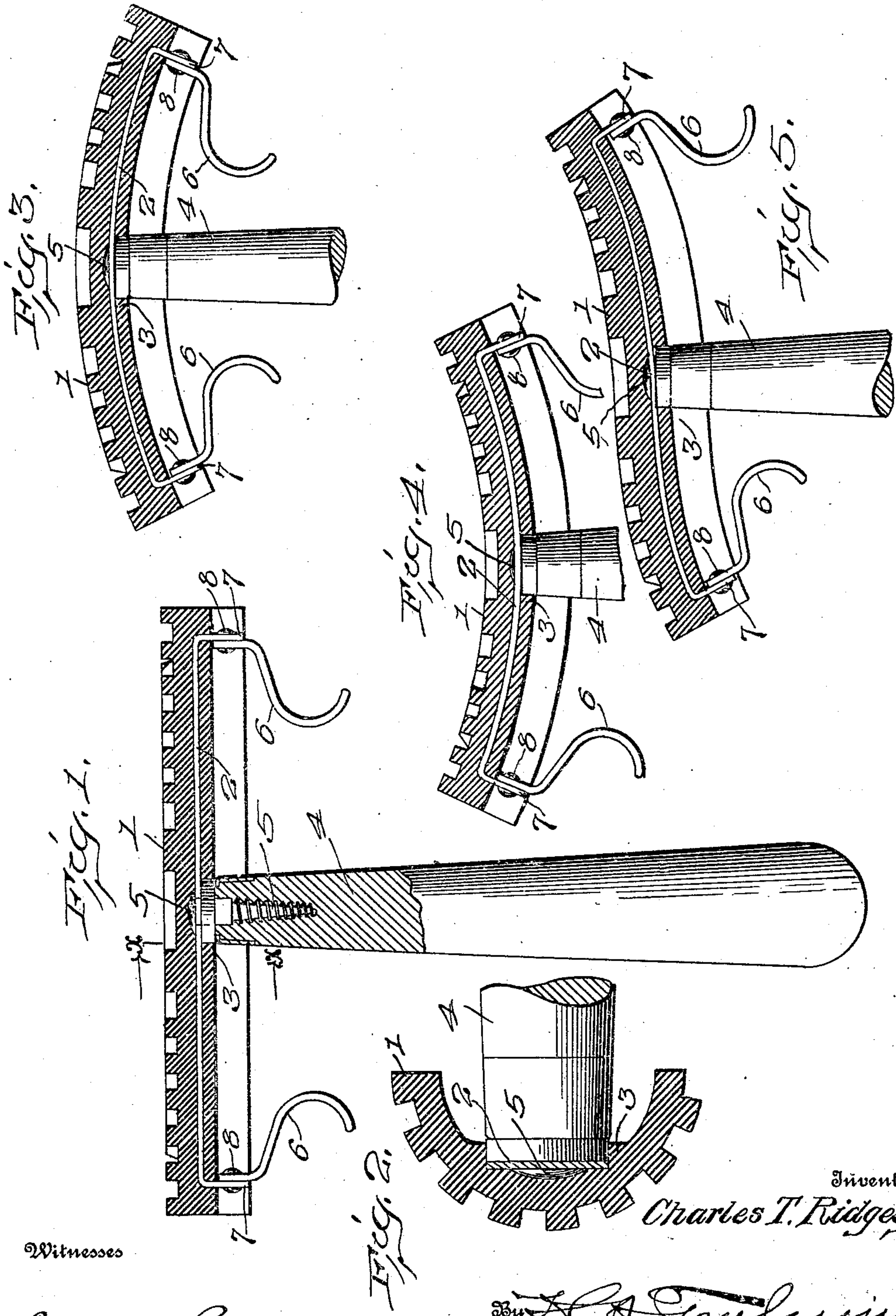


C. T. RIDGELY.
GRAINING DEVICE.
APPLICATION FILED OCT. 26, 1908.

944,821.

Patented Dec. 28, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES T. RIDGELY, OF SPRINGFIELD, OHIO.

GRAINING DEVICE.

944,821.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed October 26, 1908. Serial No. 459,515.

To all whom it may concern:

Be it known that I, CHARLES T. RIDGELY, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Graining Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to graining devices such as are used to impart to woodwork or similar surfaces the appearance of the natural wood grain.

The object of the invention is to provide a device of this character comprising a body portion, the opposite end portions of which are capable of being flexed independently of each other, thus enabling the device to be curved in different manners so as to accommodate the same to a variety of surfaces; to provide means for readily imparting the desired curved to said body portion; to provide such a device which will be of an exceedingly simple construction having no parts liable to become broken or disarranged, and enabling the device to be produced at a low cost.

With these objects in view my invention consists in certain novel features and in certain combinations and arrangements of parts hereinafter to be described, and then more particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view, taken centrally of a device embodying my invention; Fig. 2 is a transverse, sectional view, taken on the line $x-x$ of Fig. 1 and looking in the direction of the arrows; and Figs. 3, 4 and 5 are longitudinal, sectional views illustrating some of the curves which can be imparted to the device.

In these drawings I have illustrated the preferred form of my invention and have shown the same as comprising a flexible body portion 1 having its opposite ends, that is, the portions lying on opposite sides of its center, capable of being flexed independently of each other. This body portion may be of any suitable shape, and, as here shown, is substantially semicircular in cross section, and is preferably formed of rubber or similar material. The outer or convex surface of the body portion is of a suitable configuration to impart to the surface under treatment the desired appearance.

In order to impart to the body portion 1

the desired degree of resiliency I prefer to secure thereto a spring 2, which, in the present instance, consists of a flat strip of resilient metal of a length equal to or slightly less than the length of the body portion and rigidly secured thereto, preferably by molding the same into the body portion, the body portion being preferably provided with a thickened portion or backing, as shown at 3, to accommodate the spring.

A suitable handle 4 is secured to the concave side of the body portion between the ends thereof and preferably near the center of the body portion. This handle is preferably removable, and, in the present instance, I have secured the same to the body portion by means of a screw 5 which is secured to the body portion by embedding the head thereof in the rubber and rigidly securing the screw to the spring 2. In the present instance, the handle 4 is of wood and may be readily secured to the screw 5.

Suitable means are provided on each side of the center of the body portion for flexing the adjacent portion thereof to impart the desired curve thereto. This means may be of any suitable character, but I prefer to provide suitable finger pieces or grips 6 which are connected to the opposite end portions of the body portion of the device. These finger pieces may be connected to the body portion in any suitable manner, but, in the present instance, I have shown the opposite ends of the spring 2 turned inwardly and extending through the backing strip 3 near the opposite ends of the body portion, as shown at 7, and have secured the finger pieces 6 thereto by means of rivets 8. By gripping the handle 4 in the hand and grasping the finger pieces 6 by the thumb and index finger a longitudinal curve of the desired character and degree may be imparted to the body portion and it will be readily apparent that, owing to the independent flexibility of the opposite ends of the body portion, the character of the curvature may be greatly varied.

In Figs. 3 to 5 I have illustrated three different forms of curves, that in Fig. 3 being a plain convex curve to adapt the device to a concave surface, while Fig. 4 is curved in the reverse direction, and, in Fig. 5, one end of the body portion is curved outwardly and the other inwardly, thus adapting the device for use on what is known as an ogee surface. Other forms will readily

suggest themselves to one using the device. For instance, one side of the body portion can be left straight and the other side drawn inwardly or pressed outwardly.

5 In addition to being adaptable to a great variety of surfaces it will also be apparent that the device is very easily operated, the finger pieces being so located relatively to the handle 4 as to be readily engaged by the
10 thumb and finger, and, when so engaged, to be very easily operated to impart the desired curve to the body portion. It will also be apparent that the device is of an exceedingly simple character, involving a minimum number of parts and having no parts which are
15 liable to become broken or disarranged; and that by removing the handle the device may be packed in a very small space, thus enabling the same to be formed into a compact package for shipment or storage.

20 I wish it to be understood that I do not desire to be limited to the details of construction shown and described, for obvious modifications will occur to a person skilled
25 in the art.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A device of the character described
30 comprising a flexible body portion having a graining surface on one side thereof adapted to be moved laterally over the surface to be treated having each end capable of being flexed independently of the other end thereof, and a handle for said body portion.
35

2. A device of the character described comprising a flexible body portion having a graining surface on one side thereof and adapted to be moved laterally over the surface to be treated, means for flexing each
40 end of said body portion independently of the other end thereof, and a handle for said body portion.

3. A device of the character described
45 comprising a flexible body portion having a graining surface on one side thereof and adapted to be moved laterally over the surface to be treated, a handle secured thereto between the ends thereof, and independent
50 means secured to said body portion on each side of said handle for flexing the adjacent part of said body portion.

4. A device of the character described comprising a flexible body portion having
55 a graining surface on one side thereof and adapted to be moved laterally over the surface to be treated, and finger pieces secured

thereto on opposite sides of the center thereof.

5. A device of the character described 60 comprising a flexible body portion having a graining surface on one side thereof and adapted to be moved laterally over the surface to be treated, a handle secured to said body portion between the ends thereof, and 65 finger pieces secured to said body portion on opposite sides of said handle.

6. A device of the character described comprising a body portion having a grain- 70 ing surface on one side thereof, a spring secured to said body portion and extending longitudinally thereof, independent finger pieces secured to said spring near the opposite ends thereof and normally free to move to control the curvature of said body portion.
75

7. A device of the character described comprising a flexible body portion, a spring rigidly secured to said body portion, extending longitudinally thereof and having its 80 end portions extending at substantially right angles thereto, and independent finger pieces carried by said end portions.

8. A device of the character described comprising a flexible body portion having a 85 graining surface on one side thereof, a handle detachably secured thereto, and finger pieces secured to said body portion near the opposite ends thereof and normally free to move to control the curvature of said body 90 portion.

9. A device of the character described comprising a flexible body portion, a spring embedded in said body portion and extending longitudinally thereof, a handle, means 95 for securing said handle to said spring near the center of said body portion, and finger pieces secured to said body portion near the opposite ends thereof.

10. A device of the character described 100 comprising a flexible body portion, a spring embedded in said body portion and extending longitudinally thereof, a screw rigidly secured to said spring near the center of said body portion, a handle carried by said 105 screw, and finger pieces secured to said body portion near the opposite ends thereof.

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES T. RIDGELY.

Witnesses:

ELZA F. MCKEE,
EDWARD L. REED.

It is hereby certified that in Letters Patent No. 944,821, granted December 28, 1909, upon the application of Charles T. Ridgely, of Springfield, Ohio, for an improvement in "Graining Devices," errors appear in the printed specification requiring correction as follows: Page 1, line 22, the word "curved" should read *curve*, and same page and line, after the semicolon the phrase, *to provide means for detachably securing the handle to said body portion*; should be inserted; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 25th day of January, A. D., 1910.

[SEAL.]

C. C. BILLINGS,
Acting Commissioner of Patents.