

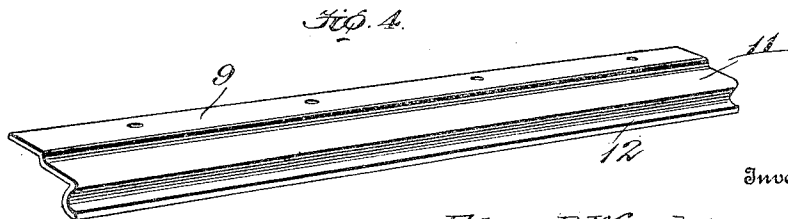
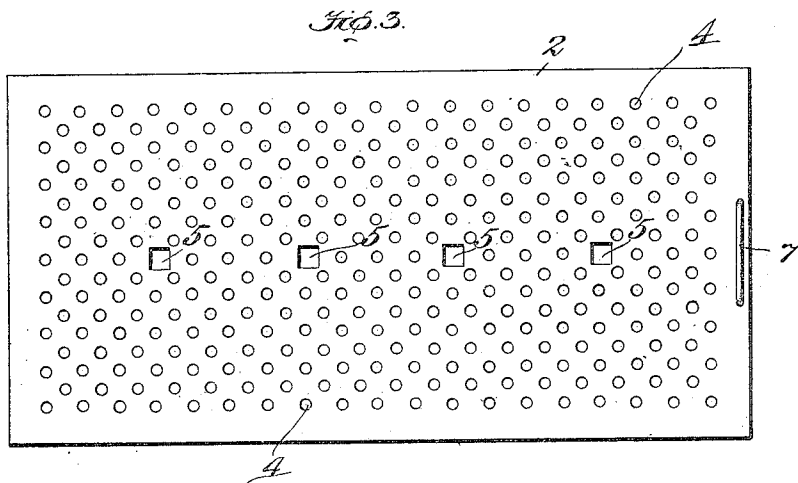
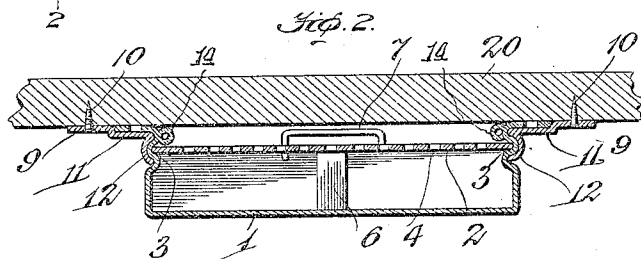
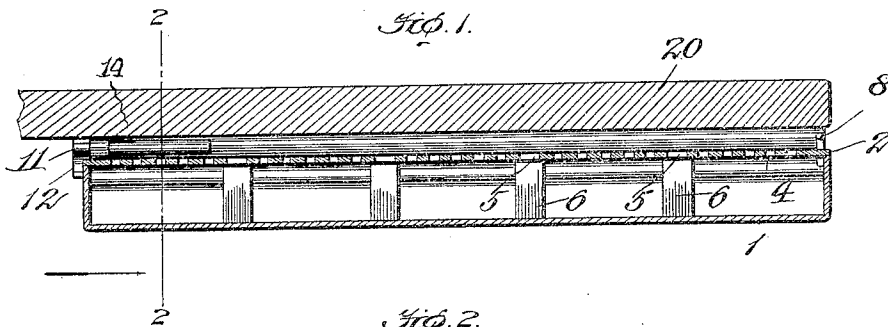
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No. 890,005.

PATENTED JUNE 9, 1908.

E. P. WRIGHT.
DEVICE FOR CATCHING GOLD FILINGS, &c.
APPLICATION FILED FEB. 5, 1908.

2 SHEETS—SHEET 1.



Inventor:

Witnesses:
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C. F. Duwall

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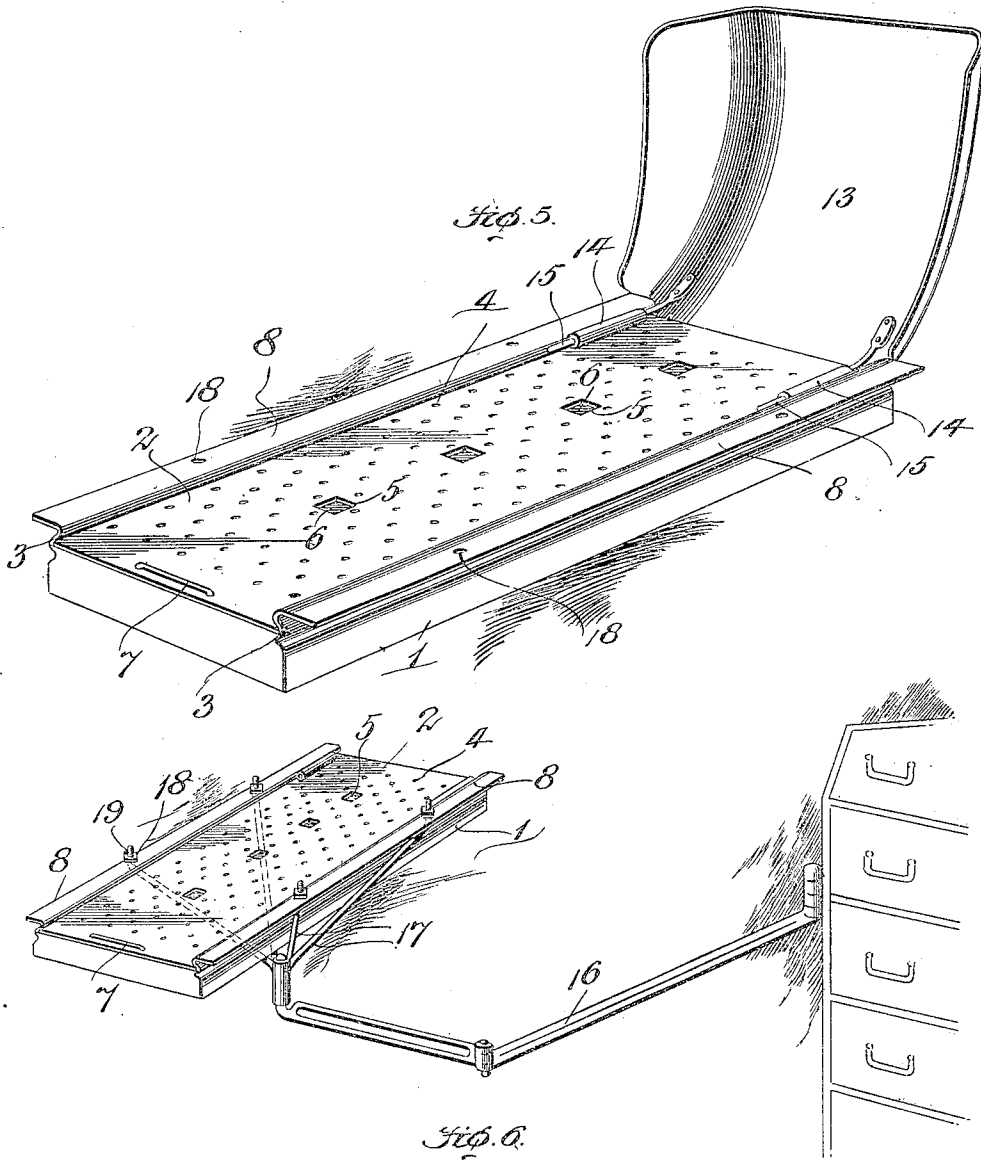
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Inventor:

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270

UNITED STATES PATENT OFFICE.

EDWIN P. WRIGHT, OF RICHMOND, VIRGINIA.

DEVICE FOR CATCHING GOLD-FILINGS, &c.

No. 890,005.

Specification of Letters Patent.

Patented June 9, 1908.

Application filed February 5, 1908. Serial No. 414,392.

To all whom it may concern:

Be it known that I, EDWIN P. WRIGHT, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented a Device for Catching Gold-Filings, &c., of which the following is a specification.

The primary object of this invention is to provide a light portable device which may be used by dentists, jewelers, and other workers in gold and precious metals for the purpose of catching the metal filings and clippings and saving them from waste.

The invention contemplates the provision of a shallow pan having a perforated top through which latter the filings or clippings pass and are collected in the pan; the construction of the device being such that it may be supported in different places according to the character of work being performed; for instance it may be arranged as a drawer to a bench for location below a block or anvil, or it may be provided with a shield for use in connection with a grinding stone; and, furthermore, it may be supported by a bracket convenient to a cabinet or other work-stand.

The device is especially designed for use by dentists in the laboratory and operating-room or parlor, and is therefore portable so that it may be carried from place to place according to the nature of the particular work being performed.

Other objects and advantages of the invention will hereinafter appear, and what I claim as my invention and desire to secure by Letters-Patent is more specifically set forth in the appended claims.

In the accompanying drawings, which form a part of this specification:—Figure 1 is a longitudinal sectional view showing the application of the device in connection with a work-bench, and arranged as a drawer beneath the same. Fig. 2 is a transverse sectional view, on the line 2—2 of Fig. 1. Fig. 3 is a detail plan view of the perforated top or cover of the pan. Fig. 4 is a detail perspective view of one of the rails which are secured to the underside of the bench and form the slides for the pan or device. Fig. 5 is a perspective view of the pan or device and showing the application of the shield thereto. Fig. 6 is a perspective view, showing the pan or device supported at the end of a jointed swinging bracket.

Like numerals of reference indicate like parts in all the figures of the drawings.

In carrying out my invention I employ in the first place a shallow pan 1, which is preferably rectangular in shape and provided with a removable top or cover 2 attached thereto in any suitable manner; in the present instance said cover being slidably connected to the pan, for which purpose the sides of the latter are bent to form longitudinal grooves or ways 3, which receive the edges of said top or cover. This top or cover is provided with a number of small perforations 4, through which the filings or small particles of metal pass into the pan, and in addition is provided with a row of openings 5 at its longitudinal center, through which larger pieces of metal may pass, said openings being normally closed by the upper ends of posts 6 which extend upward from the bottom of the pan. The sliding cover is held in closed position upon the pan by means of a spring 7, consisting of a rod attached at one end of the top and having its free end bent to pass through a perforation in said top and engage at the inner side of the front wall of the pan.

As will be obvious a closed pan of this character may be placed in such position as to catch all filings or clippings from gold and other precious metals while the gold is being worked by a dentist or jeweler, and such particles as lodge upon the cover between the perforations may be brushed into the latter so as to enter the pan, and such particles or clippings that are larger than the perforations are brushed into the openings 5 and deposited into the pan by simply moving the cover so that said openings are out of alignment with the posts. By the use of such a device, therefore, particles of gold which would otherwise go to waste are all collected in the pan and saved.

I purpose constructing the pan in the form of a drawer, so that it may be kept out of the way when not in use, and also for convenience in use in connection with a work-bench. For this purpose any suitable means may be provided, but in the present instance the sides of the pan are extended upward and outward to provide a supporting flange 8 at each side and located above the groove 3 for the top, the flanges at opposite sides of the pan being adapted to slidably engage rails secured to the underside of the bench 20. The rails are each formed of sheet metal and comprise an attaching flange 9 through which pass the securing screws 10, a horizontal por-

tion 11 upon which the flange of the pan slides and a depending curved member 12 embracing the correspondingly shaped portion of the side of the pan. By this arrangement the pan may be readily slid under the top of the bench, and when used in connection with a dentist's block or an anvil located at the edge of the bench as usual said pan is slid partly outward, so that the particles of metal from the article which is being worked on the block or anvil may be caught by the pan.

In using the device in connection with a revolving grinding stone or other similar machine I provide a shield 13, adapted to be disposed at one end of the pan to catch the flying particles of metal removed by the machine and deflect them on to the top or cover of the pan, and in order that this shield may be removed so as to not interfere with sliding the device into place under the bench the said shield is detachably connected to the pan, for which purpose ears, as 14, are provided and located at the upper part of the pan near one end thereof, said ears being located at the inner side of the side pieces of the pan between the cover and pan supporting flange 8. These ears or sockets are adapted to receive the ends of rods 15, which are secured to the shield and project therefrom. The shape of the shield is preferably that shown in Fig. 5 of the drawings, that is to say, comprising a plate or sheet of metal the body portion of which is curved outward and upward from the end of the pan while the sides are flared inward, so that particles of metal which strike anywhere on the inner surface of the plate or shield will be guided or deflected on to the perforated top of the pan. In this adaptation of the device the pan is placed below the revolving grinding stone or milling wheel and the shield disposed in the rear of the same, so as to catch all the particles that are removed by said stone or wheel.

In some instances it is desirable that the pan be arranged so that it may be readily moved in and out of operative position, for instance when used by a dentist in the operating-room or parlor. In such instance the pan is supported from an ordinary swinging bracket, as 16, by providing said bracket with diverging rods 17, the free bent ends of which are adapted to pass through perforations 18 in the flanges 8 of the pan, and the said pan securely held in place by nuts 19 threaded on the projecting ends of the rods, as shown in Fig. 6 of the drawings. The bracket may be supported from any convenient article of furniture, as an ordinary cabinet, such as used by dentists, and when desired for use in the laboratory or work-room may be readily removed from the bracket and the latter swung around out of the way.

From the foregoing it will be readily seen that I provide a pan or catch device of such construction that it may be used in connection with different kinds of work so as to collect and save particles of gold or other precious metal which would otherwise go to waste; and it will be noted that the perforated top or cover hile permitting the particles to pass into the pan also protects the same from blowing out should the pan be placed in a draft of air.

Though the device is especially designed for use by dentists in the laboratory and operating-room it will be obvious that it may be used also by jewelers and others who may work in precious metals, and without modification or change.

Having thus described my invention, I claim:—

1. A device for catching gold filings, etc., comprising a pan, and a perforated top or cover located above the bottom of the pan.

2. A device for catching gold filings, etc., comprising a pan, and a perforated top or cover located above the bottom of the pan and below the upper ends of the sides of said pan, the upper ends of said sides forming a retaining wall around the perforated top.

3. A device for catching gold, etc., comprising a pan, a perforated top or cover therefor slidably engaging the pan, and a rod secured to the cover at one end and having the other end bent for engagement with an end wall of the pan.

4. A device for catching gold filings, etc., comprising a pan, a top or cover located above the bottom of the pan and provided with perforations and a row of openings, and posts rising from the bottom of the pan and adapted to cover said openings when the cover is in place.

5. A device for catching gold filings, etc., comprising a pan, a perforated cover therefor, and means for supporting the pan in slidable engagement with a bench.

6. A device for catching gold filings, etc., comprising a pan having supporting flanges at the upper edges thereof, and a perforated top or cover located above the bottom of the pan.

7. A device for catching gold filings, etc., comprising a pan, a perforated top or cover located above the bottom of the pan, and a shield or deflector at one end of said pan above the perforated top thereof.

8. A device for catching gold filings, etc., comprising a pan, a perforated top or cover located above the bottom of the pan, and a shield or deflector detachably connected at one end of the pan above the perforated top thereof.

9. A device for catching gold filings, etc., comprising a pan having supporting flanges at the side edges thereof, a perforated top or cover in the pan below the supporting

270
flanges, perforated ears within the pan above the cover, and a shield or deflector having rods adapted to slidably engage the ears to connect said shield or deflector to the pan.

- 5 10. A device for catching gold filings, etc., comprising a pan having supporting flanges at the side edges thereof with holes through said flanges, and a top or cover supported above the bottom of the pan and provided
10 with perforations; together with a bracket having rods with bent ends adapted to engage the holes in the supporting flanges of the pan.

- 15 11. A device for catching gold filings, etc., comprising a pan having supporting flanges

at the side edges thereof with holes through said flanges, a perforated top slidable in the pan and located below the aforesaid flanges, perforated ears located in the pan between the cover and supporting flanges, and a shield or deflector having rods adapted to engage said ears.

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

EDWIN P. WRIGHT.

Witnesses:

C. R. GUY,

A. W. PATTERSON.