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GOLD SAVING RECEPTACLE.
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Inventor

Witness:
To all whom it may concern:

Be it known that I, IRA A. BURNETT, a citizen of the United States, residing at the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Gold-Saving Receptacles, of which the following is a specification.

This invention relates to improvements in a receptacle or container to be used for catching and retaining filings, metallic dust and scraps or pieces of precious metals, particularly of gold, as they are produced with working tools or apparatus in the operation of manufacturing articles of such material, or in grinding, polishing or drilling the same, and while it is more especially intended for use by dentists in performing mechanical dentistry, such as bridge-work, preparing crowns, and the like, yet it is applicable for use by jewelers and others, and it consists in certain peculiarities of the construction, novel arrangement, combination and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The principal object of the invention is to provide a device of the above mentioned general character, which shall be extremely simple and inexpensive in construction, ornamental in appearance, compact in form, and as respect the parts so held, strong, durable and efficient in operation. Another and important object of the invention is to provide a receptacle of such construction and material as to surround the hands of the operator in which the working members or tools and the article being operated on are held, in such a way, that they can be freely used, and so that the operator shall have a clear or unobstructed view of the work and operating tool inclosed by the receptacle. A further object is to provide in connection with the confining or collecting receptacle or body, a detachable deposit cup or container for the metal filings, dust or particles yielded from the work, so that they may be reclaimed instead of being wasted as ordinarily.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In the accompanying drawing, which serves to illustrate an embodiment of the invention—

Figure 1 is a front view in elevation of the receptacle and one form of its mount.

Fig. 2 is a side view thereof.

Fig. 3 is a side view partly in section and partly in elevation, showing a modification in the construction of the mount or support for the receptacle, but with the latter omitted from its supporting bracket, and

Fig. 4 is a central sectional view of the lower portion of the collecting or confining receptacle and the deposit cup or container mounted thereon.

Like numerals of reference refer to corresponding parts throughout the different views of the drawing.

Referring now to Figs. 1 and 2 of the drawing, the collecting or confining receptacle is designated by the reference numeral 10 and is by preference made of glass, although it may be made of any other trans-parent material, or partially of transparent material, and of substantially spherical shape. As shown, the receptacle 10 is provided with opposed openings 11, each of which is surrounded by a neck 12, provided at its outer rim with an annular flange 13, for strengthening and ornamental purposes. The openings 11 in the receptacle 10 are of sufficient size to admit of the insertion into the globe or spherical body 10 of the hands 85 of the operator which hold and operate the work and the operating tools therefor, which latter may be of the rotary or any other type. The globe or receptacle 10 which may be of any suitable shape, but as before stated, is by preference substantially spherical in form, is provided in its lower portion with an outlet neck or opening 14, which is by preference integral therewith, and circular in cross-section, but slightly tapered toward its free end. The receptacle 10 may be, and is by preference made of clear crystal glass, so as to permit light to enter the same from all points, but of course it may be made of other transparent material, or semi-transparent material, such as celluloid and the like.

In the present embodiment of the invention, I have shown the container 10 as being mounted on a mount or support by means or
through the instrumentality of a yoke, which is designated as a whole by the numeral 15, and which consists of a curved member 16, a vertical socket 17, which is by preference angular in cross-section to receive a similarly shaped supporting arm 18, which may be supported in any desired manner. Each of the curved arms or members 16 of the yoke 15 is provided with upwardly extended prongs 19, which by preference are shaped to form an arc of a circle 20, as shown in Fig. 3 of the drawing, for the reception and retention of the necks 12 of the opposed lateral portions of the globe or retaining 10 of the device. The yoke 15 is by preference made of a single piece of material, that is, its members 16 and the socketed member 17 are integrally formed. Located and secured on the lower front portion of the socketed member or portion 17 of the yoke 15 is one end of a spring holder 21, which has at its opposite end a ring 22 or circular opening for the reception of a detachable deposit cup 23, which may be made of any suitable material, but by preference has at its upper end an annular flange 24 to surround and engage the outlet neck 14 of the collecting and confining receptacle 10 of the device, as is clearly shown in Figs. 1, 2 and 4 of the drawing.

It is obvious by reference to Figs. 1 to 3 inclusive of the drawing that the socketed member 17 of the yoke 15 may be mounted on the supporting shaft or rod 18, which may be adjustable supported at its lower portion by means of a tubular mount 25 in the form of a stand, which stand may be of any suitable height and properly supported into which tubular mount the lower portion of the supporting rod or shaft 18 is extended and may be adjustably held by means of a set screw 26 seated in said mount, which construction will permit of lateral adjustment of the receptacle 10, as well as vertical adjustment thereof.

By reference to Fig. 3, it will be understood that the shaft 15 may be secured to and extended upwardly from the plate or member 27 of an adjustable bracket 28 of the “lazy-tongs” type which may be mounted at its opposite end for lateral movement. It is well known that this lazy-tongs bracket may be adjusted laterally or longitudinally or vertically as may be desired.

By my improvements, it will be readily understood that the metallic parts of the device may be nickel plated or otherwise highly and attractively polished or embellished and that the support when made as shown in Figs. 1 and 2 of the drawing may be placed on the floor, or on a table or stand of proper height, or when the construction shown in Fig. 3 of the drawing is employed, the lazy-tongs bracket 28 may be secured in a suitable manner to the wall of the room, at a convenient place for the device to be used when the lazy-tongs are extended, or to be out of the way when they are retracted.

In using the device, it will be understood that the hands of the operator, one holding the engine hand piece and the other the work or material to be operated on thereby, can be placed in the container or receptacle 10 through the opposed openings 11 therein, as shown by dotted lines in Fig. 1 of the drawing when it is obvious that the wrists and clothing on the arms will close said openings to such an extent as to prevent metallic dust, filings, and the like from escaping therethrough, thus causing them as they are produced to be collected by the container 10 and guided through its outlet opening 14 into the deposit receptacle 23, which can be readily detached from the receptacle 10 by pressing downwardly on the spring arm 21, which normally holds said cup in position.

By my improvements, it is apparent that the operator will be enabled to see and manipulate the work and tools, almost as clearly and readily as if an inclosure was not employed, and that the filings and particles of metal will be saved instead of wasted.

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, consisting of a hollow transparent body having therein opposed openings and provided in its lower portion with an outlet opening, means to adjustably support said body and a cup detachably mounted around the outlet opening of the body.

2. A device of the character described, consisting of a hollow body provided with opposed openings and an outlet opening in its lower portion, each of said openings being surrounded by an outwardly projected neck, a yoke having bearing portions to receive the necks of the opposed openings, said yoke having means to mount it on a suitable support, and a cup detachably mounted around the neck of the outlet opening of the body.

3. A device of the character described, consisting of a hollow transparent body provided with opposed openings and an outlet opening in its lower portion, a yoke having bearing portions to receive and support the body at their opposed openings, means to adjustably support said yoke, and a cup detachably mounted on the outlet opening of the body.

4. A device of the character described, consisting of a hollow transparent body provided with opposed openings and an outlet opening in its lower portion, each of said opposed openings being surrounded by an
outwardly extended neck having at its outer portion an annular flange, said outlet opening having an outwardly extended neck, a yoke having bearing portions to receive the necks of the opposed openings and provided with a socket, an adjustable support engaging the socket of said yoke, a spring arm secured at one of its ends to the yoke and having an opening at its other end located beneath the outlet opening of the body, and a cup detachably located in the opening of said arm and mounted around the neck of the outlet opening of the body.

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