Feb. 4, 1936. F. W. BRENNER 2,029,607

CAN PUNCH

Filed Jan. 26, 1935

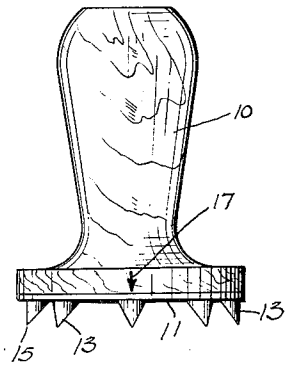


FIG. 1

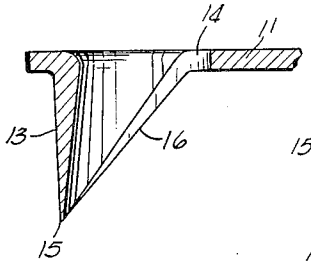


FIG. 5.

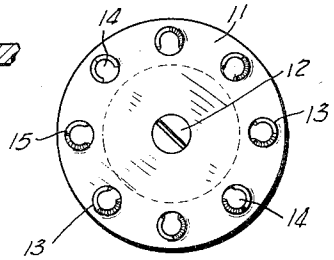


FIG. 2

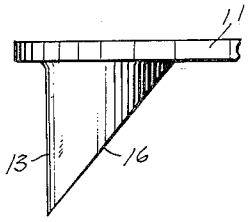


FIG. 4

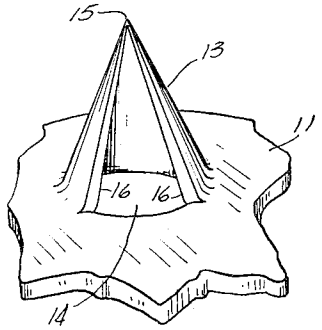


FIG. 3

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CAN PUNCH

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4 Claims. (Cl. 164—119)

This invention relates to can punches and has for an object to provide an implement especially adapted for punching out the preformed semi-punched holes common in can tops; but the invention is not limited to that utility.

A further object of the invention is to provide an implement having punches of improved form properly spaced to correspond to preformed semi-punched holes in can tops.

A further object of the invention is to provide an implement having punches thereon formed as segments adapted to complete the punching of partially punched openings or to punch complete openings not previously punched.

A further object of the invention is to provide an implement comprising a plate of material having punch members punched therefrom, all extending in properly arranged order upon one side of the plate, said individual punches being segmental with edges adapted to cut sheet metal and with the extreme sides, that is to say, the side adjacent to the perimeter of the plate, long and pointed.

The invention therefore comprises a handle member having a plate secured thereto, said plate being punched from the side contiguous to the handle to form punch members extending upon the opposite side, each of said members being produced by a draw punch which cuts and punches members to form points upon the external side of the circle or other form upon which said punch members are arranged with segments having cutting edges extending from said points throughout the major part of a circle.

In the drawing, Figure 1 is a view of the implement in side elevation.

Figure 2 is a view of the utensil in end elevation.

Figure 3 is a perspective view of one of the punch members.

Figure 4 is a view, on a greatly enlarged scale, of one of the punch members in side elevation.

Figure 5 is a view, on a greatly enlarged scale, of one of the punch members in substantially diametrical section.

Like characters of reference indicate corresponding parts throughout the several views.

The improved can punch which forms the subject matter of the present application, comprises a handle 10 of any convenient form or contour and the particular shape or design of the handle as shown at Figure 1 in the present drawing is to be considered as no limitation upon the invention.

Attached to the handle 10 is a plate 11 of such material as will produce the necessary punching efficiency. At the present time, steel would be considered the desirable material but the invention is in no way limited thereto. This plate 11 is secured to the handle 10 in any approved manner. In Figure 2 a screw 12 is shown for the purpose but this is purely illustrative and not a limitation.

The plate 11 is provided with a plurality of punch members 13, all extending upon one side of the plate and arranged in some pattern. At Figure 2 these punches are shown as arranged upon a circle which corresponds generally to the form of the semi-punched openings ordinarily found in cans of commerce, but the form is not limited to a circle and may assume any shape found necessary or desirable.

These punch members 13 are formed by punching from the plate 11, the openings 14 indicating the spaces from which they have been projected in the press. They are formed segmentally, when so produced by a round punch, such segmental form being shown more particularly at Figure 3. The punching will have a drawing effect whereby a relatively sharp point 15 is produced with the sides 16 so drawn to an edge by the punch as to form also cutting edges.

Some index, as the arrow 17, on the handle 10 is provided so that the position of the punch points 15 may be determined by the view from above. When used with can tops of semi-punched parts, the index 17 will properly position at least one of the punches relative to one of the semi-punched parts, the other punch members being placed thereby in such position that a sharp blow by the hand or another implement upon the end of the handle will force the several punches through these semi-punched openings to simultaneously punch out all of said openings and open the can for sifting purposes.

It is obvious that with the punch members reduced to relatively sharp edges or points, like effect may be had when the can has not been previously punched.

Of course, the can punch illustrated may be modified and changed in various ways without departing from the invention herein set forth and hereinafter claimed.

I claim:

1. A can punch comprising a handle, a plate attached to the handle the point of attachment being centrally of the plate, and a series of punch members extending upon the side of the plate opposite the handle, with the pressure from the

handle being transmitted to the plate along a circular line adjacent to and interiorly of the punch members, each of said punch members having been previously punched from the plate.

2. A can punch comprising a handle, a plate carried by the handle, and a plurality of punch members segmental in section extending from the side of the plate opposite the handle, said punch member being drawn from the plate.

3. A can punch comprising a plate having punch members extending from one side thereof, each of said members comprising a hollow segment having pointed and inclined sides, said punch members being drawn from the plate.

4. A can punch comprising a plate having a plurality of punch members extending from one side thereof, each of said punch members being defined by a circular opening in the plate along the edge of which the punch member is integrally connected with the plate and formed as a hollow segment having a point at its outer side and having sides tapered from said point inwardly.

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