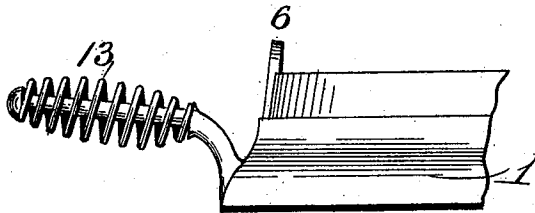
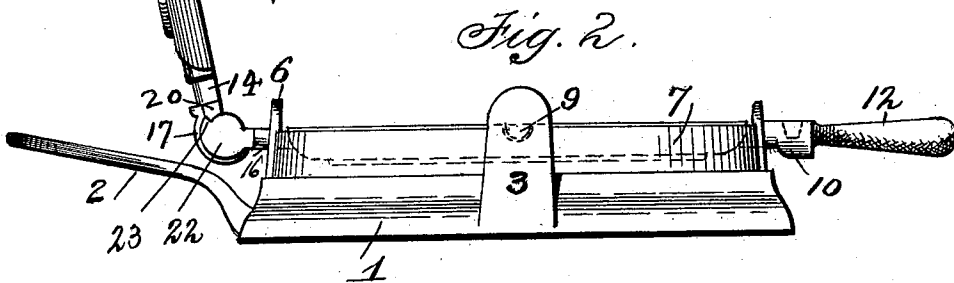
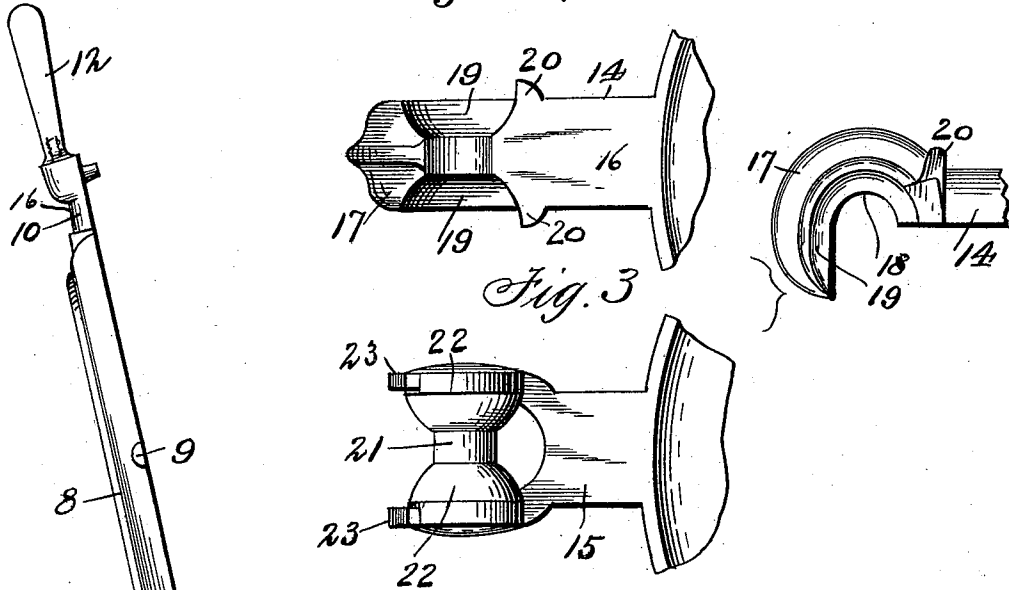
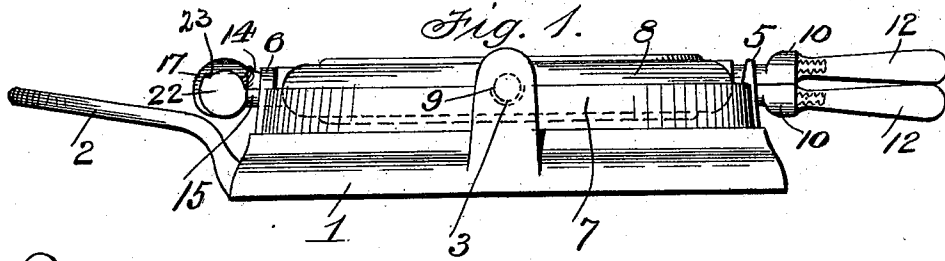


(No Model.)

E. C. PERRY.  
WAFFLE IRON.

No. 602,101.

Patented Apr. 12, 1898.



Witnesses  
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# UNITED STATES PATENT OFFICE.

EARLE CLINTON PERRY, OF JEFFERSONVILLE, INDIANA, ASSIGNOR TO THE INDIANA MANUFACTURING COMPANY, OF SAME PLACE.

## WAFFLE-IRON.

SPECIFICATION forming part of Letters Patent No. 602,101, dated April 12, 1898.

Application filed December 13, 1897. Serial No. 661,648. (No model.)

*To all whom it may concern:*

Be it known that I, EARLE CLINTON PERRY, a citizen of the United States, residing at Jeffersonville, in the county of Clark and State of Indiana, have invented certain new and useful Improvements in Waffle-Irons; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention has relation to waffle-irons, and among the objects in view is to provide a waffle-iron of simple and inexpensive construction wherein the two sections or plates between which the waffles are baked may be readily disconnected from each other when at various angles to each other for the purpose of enabling them to be readily and thoroughly cleaned; also, to provide a waffle-iron wherein one of the baking sections or plates can be raised to a perpendicular or substantially perpendicular position relatively to the companion section or plate and when so raised will be firmly held or supported while the waffle material is being placed within the device or the baked waffle is being removed; also, to dispense with lugs, sockets, pivot-pins, or the like, such as are commonly used on waffle-irons of usual construction for the purpose of hinging the sections together or for holding one of the sections in a raised position.

With the above and other objects in view, all of which will be made apparent hereinafter, the invention consists in the novel construction, arrangement, and combination of parts, as hereinafter fully described, illustrated in the drawings, and pointed out in the appended claims.

In the drawings, Figure 1 is a side elevation of my improved waffle-iron, showing the pivotally-arranged sections closed. Fig. 2 is a similar view showing one of the sections in a raised or open position. Fig. 3 illustrates a plan view of the hinge connection, showing the parts separated and also showing a side view of the upper hinge-section. Fig. 4 is a detail view illustrating a different construc-

tion of handle that may be used for the supporting-base of the device.

In carrying out my invention I provide an annular base or ring 1, adapted to support the sections or plates between which the waffles are baked. The said base 1 is preferably provided at any desired point upon its periphery with any suitable handle—as, for instance, that indicated in Figs. 1 and 2—which is cast integral with said base to adapt the latter to be conveniently handled. The base is also provided at diametrically opposite points with recessed or hollow sockets 3, as usual, and at points midway between the said sockets with sockets 5 6, all for a purpose presently apparent.

7 and 8 indicate the annular sections or plates between which the waffles are baked. The sections in their general construction do not differ from waffle-iron sections as usually constructed—that is to say, in their general construction they are counterparts of each other and may have any desired fancy configuration upon their inner adjacent faces and are of such size as to be adapted to freely rotate within the opening of the base 1, so as to be reversed in position, as is customary. The sections have at one side semicircular projecting lugs 9, adapted to rest within the sockets 3 when the sections are reversed in position. The sections are also provided with projecting lugs 10, which may be prolonged to form handles, or any suitable construction of handle may be secured to said lugs—as, for instance, in Figs. 1 and 2 I show wooden handles screwed upon threaded lugs cast integral with the sections. In fact, any construction of handle may be used whereby the waffle-iron sections may be raised or separated one from the other or both from the supporting-base. Each lug 10 is rounded or semicircular in shape and adapted to rest in the socket 5 and to turn therein as a pivot when the sections are to be reversed.

Opposite the lugs 10 the sections are pivotally connected together by a hinge connection of novel construction, which not only is adapted to turn as a pivot in the socket 6 when the sections are to be reversed, but also permits one section to be raised away from

the other section, and when in a perpendicular or nearly perpendicular position relatively to the latter section will be held to permit waffle material to be placed within the last-named section or the baked waffles to be removed therefrom. The said hinge connection is also constructed so as to permit the ready detachment of one (the upper) section from the other section at any angle between the fully-closed position seen in Fig. 1 to the fully-open position seen in Fig. 2.

The hinge connection which I employ comprises two lugs or castings preferably integral with the respective sections 7 8. They are rounded at the points 16, where they are adapted to rest and turn within the socket 6 of the base. The lug 14 at its outer end has a hook portion 17 and a curved or semicircular bearing-face 18 on its inner side. At opposite sides of its longitudinal central line the lug 14 is beveled or inclined, as at 19, and contiguous to the hook portion the lug is provided at opposite sides with shoulders or abutments 20 for a purpose presently apparent. The lug 15 is at its outer end provided with a spool-shaped portion 21—that is to say, it is inclined at opposite sides at 22, and said portion is provided on opposite sides with shoulders or abutments 23, against which the shoulders 20 are adapted to abut and rest when the section 8 is thrown open into the position seen in Fig. 2, and thus prevent the section from farther rotation backward, and thus holding said section 8 in a nearly perpendicular position relatively to section 7 to enable waffle material to be placed within section 7 or the baked waffles to be removed therefrom. This is a most important and essential feature of the present invention.

By reason of making the lugs inclined, as at 19 22, the inclined portions fit snugly together when the lug 14 is being turned upon and relatively to lug 15, and thus there is no lateral or side twist of the lug 14 during such movement. Furthermore, it will be noted that owing to the described construction of hinge members the section 8, with its lug 14, can be quickly detached from the other section and lug at any angle between the fully-closed position and the fully-open position by simply lifting section 8 and its lug rectilinearly off or away from section 7 and its lug, and when in the fully-open position said section 8 will not be liable to become detached unless it is first turned slightly toward a closed position sufficient to free the shoulders 19 and

22, when it may be readily detached. This construction of hinge members, which enables the separation of the sections at almost any angle, as described, forms another important and essential feature of my invention. It enables the operator to instantly detach the sections when desired without necessitating a turning of one of the sections for practically a quarter of a turn, as is the case with some other devices of a like character. Furthermore, no pivot pins or bolts or sockets are required in hinging the sections together.

The whole forms a simple and inexpensive construction, which imparts decided advantages to the device.

In Fig. 4 I show a handle for the base 1, which may, if desired, be used in lieu of the handle seen in Figs. 1 and 2. In the modified construction the handle is formed from heavy coils of wire arranged upon a projecting lug formed integral with the base. Any other suitable construction of handle might be used for the base.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In a waffle-iron, the combination with the sections 7 and 8, of a hinge connection therefor comprising lugs carried by said sections, one of said lugs having a hook portion 17 with a curved bearing-face on its inner side and lateral shoulders 20, and the other section having a rounded portion and shoulders 23, the said hook portion being adapted to loosely fit and have a turning movement upon the said rounded portion, and the sections being adapted to be separated at any point in the turning movement by lifting the section 8 and its lug rectilinearly off or away from section 7 and its lug, all being arranged for coöperation as and for the purposes specified.

2. In a waffle-iron, the combination with the sections 7 and 8, of a hinge connection therefor comprising lugs carried by said sections adapted to engage and have a turning or pivotal movement one upon the other, one of said lugs having a hook portion with inclined or beveled sides, and the other lug having a spool-shaped portion, said parts being arranged and adapted to coöperate in the manner and for the purpose specified.

In testimony whereof I have affixed my signature in presence of two witnesses.

EARLE CLINTON PERRY.

Witnesses:

FRANCIS ARTHUR RUAN,  
CHARLES WILLIAM EDLER.