(No Model.)

2 Sheets—Sheet 1.

D. SHIELDS.

WAFFLE IRON.

No. 502,086. Patented July 25, 1893.

Fig. 1

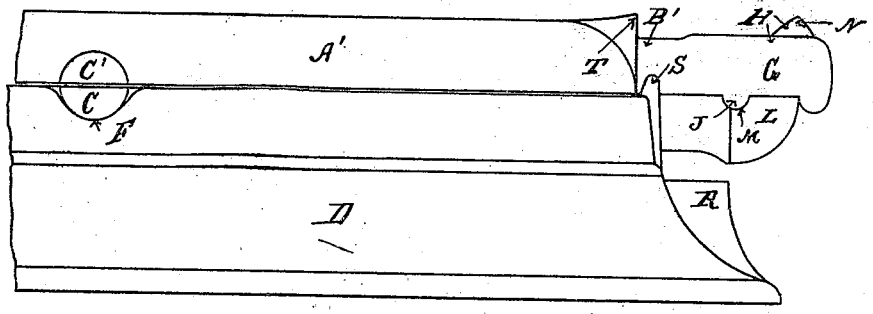


Fig. 2.

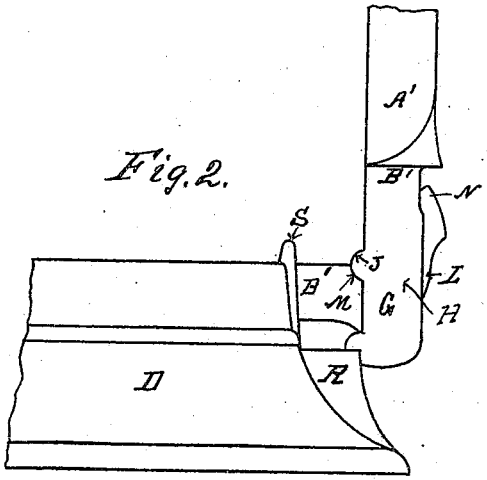


Fig. 3.

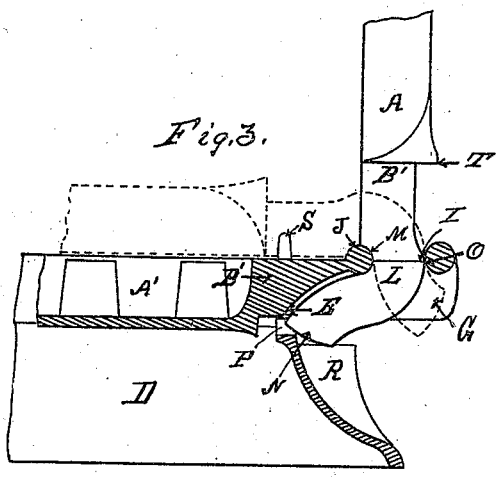
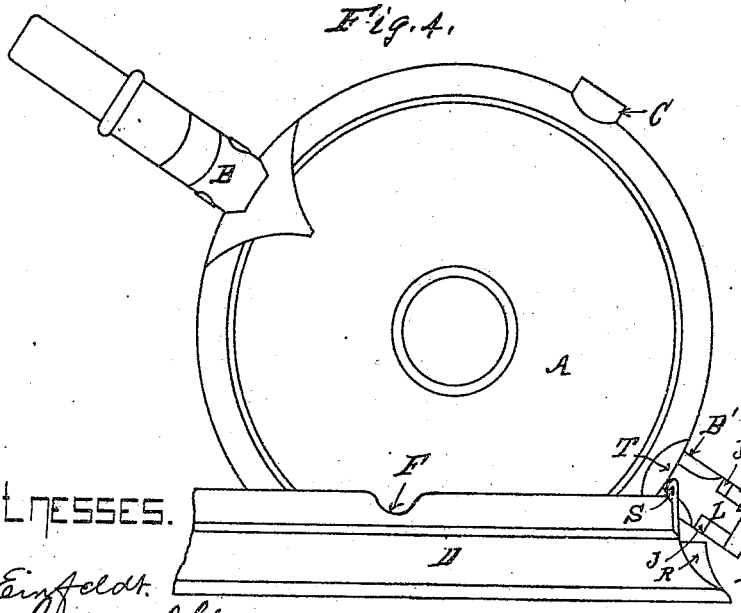


Fig. 4.



Witnesses.

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Inventor

David Shields

By A. S. Lawrence

(No Model.) 2 Sheets—Sheet 2.

D. SHIELDS.

WAFFLE IRON.

No. 502,086. Patented July 25, 1893.

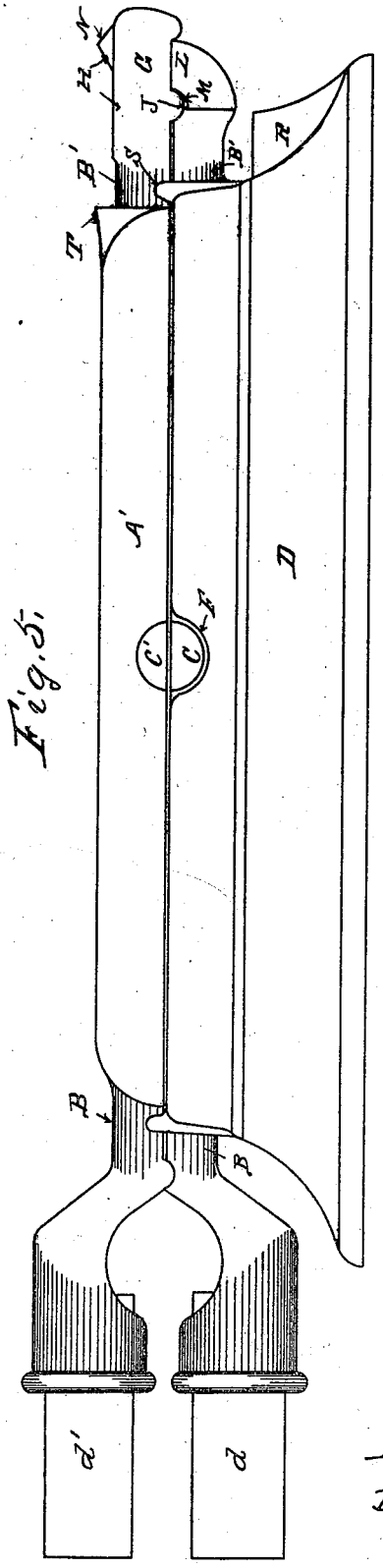

Fig. 5.

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UNITED STATES PATENT OFFICE.

DAVID SHIELDS, OF ERIE, PENNSYLVANIA, ASSIGNOR TO MATTHEW GRISWOLD.

WAFFLE-IRON.

SPECIFICATION forming part of Letters Patent No. 502,086, dated July 25, 1893.

Application filed February 27, 1893. Serial No. 463,899. (No model.)

To all whom it may concern:

Be it known that I, DAVID SHIELDS, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Waffle-Irons; and I do hereby 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 letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in waffle-irons hereinafter set forth and explained and illustrated in the accompanying drawings in which—

Figure 1. shows a side elevation of a section of a waffle-iron embodying my improvement. Fig. 2. is a like view of the same, one half thereof in a raised position. Fig. 3. is a like view of the same with the other half in a raised position. Fig. 4. is a view in elevation of my waffle-iron during the reversal of the same, when the waffle-iron is being used on top of a stove with the griddles in place thereon. Fig. 5. is a side elevation of my improved waffle-iron.

My invention relates to that class of waffle-irons in which, the handles form one of the bearings upon which the waffle-iron rotates, and the hinge joining the two halves of the waffle-iron together forms the other bearing, the objects of the invention being the construction of the hinge in two parts, male and female, and the formation of suitable lugs on the waffle-iron ring to engage both the male and female parts of the hinge, according to the part of the waffle-iron raised, and retain the upper part of the waffle-iron when raised in an upright position and the lower part in a horizontal position.

Another feature of my invention is the construction of the waffle-iron hinge, so that the parts thereof when cast will go together without rivets, stud pins, or other appliances, and so interlock with each other that they will not come apart during the ordinary use of the iron, but can be readily detached by the operator when desired.

A further feature of my invention consists of a collar on the bearing adjacent to the hinge, adapted to engage and ride upon upwardly projecting lugs on the waffle-iron ring, during the process of turning the waffle-iron in the manner illustrated in Fig. 4. of the drawings.

In the construction of my improved waffle-iron shown in the drawings, A is one half and A′ the other half of the waffle-iron, the same being duplicates in size and shape, except as to the parts thereof forming the hinge hereinafter described. Each of the halves A, A′ is provided with semi-circular journals or bearings B and B′, which, when the halves of the iron are placed together form complete journals or bearings therefor, and on one side of each of the sections of the waffle-iron are semi-circular studs or stops C, C′ as and for the purpose hereinafter set forth.

The waffle-iron ring D is constructed with notches E in the upper edge thereof, in which the bearings B and B′ rest and are adapted to rotate in the usual manner; notches F are also made therein to receive the studs or stops C, C′ in the usual manner. The halves of the journal B extend outward and are provided with handles *d* and *d′* in the usual manner.

The portion of the journal B′ on the section A′ of the waffle-iron, I extend outward and make thereon the female portion G of the hinge H, which joins the two sections of the iron together; the part G of the hinge is provided with an oblong slot I on the inner face of which is a circular bearing J, as and for the purpose hereinafter set forth. The male portion L of the hinge H is formed by an outward extension of the portion of the journal B′ on the section A of the waffle-iron, and is made in the shape of a reverse curve; it is also provided with a semi-circular recess M, adapted to rest and turn on the circular bearing J on the female part G of the hinge, the lower end N of the male part L engaging with the rear O of the slot I, when the parts of the waffle-iron are together, so as to prevent them being lifted apart, and also operating as a stop to prevent the section A′ of the iron from falling over backward when raised as illustrated in Fig. 2.

In the waffle-iron ring D beneath the notch E, I make a slot or notch P of sufficient size

and width to receive the end N of the male portion L of the hinge when the section A of the waffle-iron is in a raised position as illustrated in Fig. 3; I also make outwardly projecting lugs R on the ring D beneath the hinge H of sufficient distance apart to receive the outer end of the female part G of the hinge between them, when the part A′ of the waffle-iron is raised, as illustrated in Fig. 2; it will thus be observed that whichever section of the waffle-iron is raised it will be retained as described in an upright position, while at the same time the other section of the iron is retained in a horizontal position. I also provide at each side of the slots E, forming the bearings for the hinged journals B′ of the iron, upwardly projecting lugs S, and at the point of the junction of the bearings B′ with the sections A and A′ of the iron, I provide a collar T which collar, when the iron is raised, as illustrated in Fig. 4, rides upon the lugs S and allows the iron to be freely rotated in such position, this being necessary, when the iron is being used on the top of a stove without the griddles being removed therefrom. When, however, it is used on a stove with the griddles removed, it is rotated with both the handle journals and the hinge journals in the bearings in the ring D in the usual manner.

Having thus fully described my invention, so as to enable others to construct and operate the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination in a waffle-iron, of a hinged journal forming one of the bearings on which the iron rotates, consisting of a female section and a male section, passing through a slot in said female section, and so interlocking with each other that they will not separate during the operation of opening and closing the iron, substantially as set forth.

2. The combination in a waffle-iron, of divided handles, forming one of the journals, and a divided hinged journal, consisting of a male section passing through a female section interlocking with the same, and forming the other of the journals upon which the iron rotates, with slots or projections on the waffle-iron ring, adapted to engage the part of the hinge attached to each section of the iron, when such section is in a raised position, substantially as and for the purpose set forth.

3. The combination in a waffle-iron, of a divided journal B′, forming one of the bearings upon which the iron rotates, with a hinge H thereon, consisting of a female section G, having a bearing J thereon, and a male section L having a recess M therein adapted to fit over and turn on the bearing J on the female section, substantially as and for the purpose set forth.

4. The combination in a waffle-iron, of a divided hinged journal B′ forming one of the bearings upon which the iron rotates, and a collar T thereon, with upwardly projecting lugs S on the waffle-iron ring D at each side of the journal bearing E therein, substantially as and for the purpose set forth.

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

DAVID SHIELDS.

Witnesses:
MATTHEW GRISWOLD, Jr.,
F. EINFELDT.