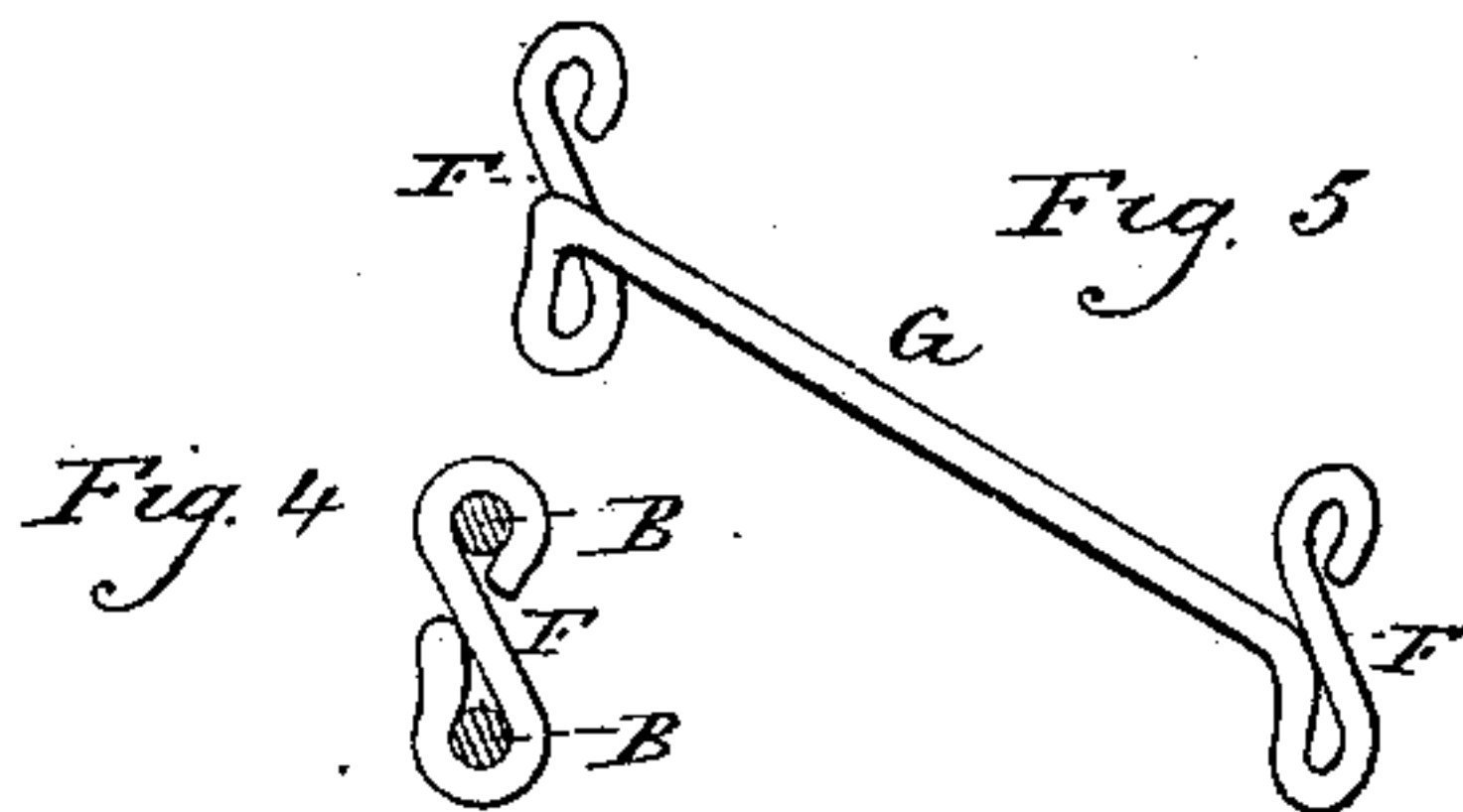
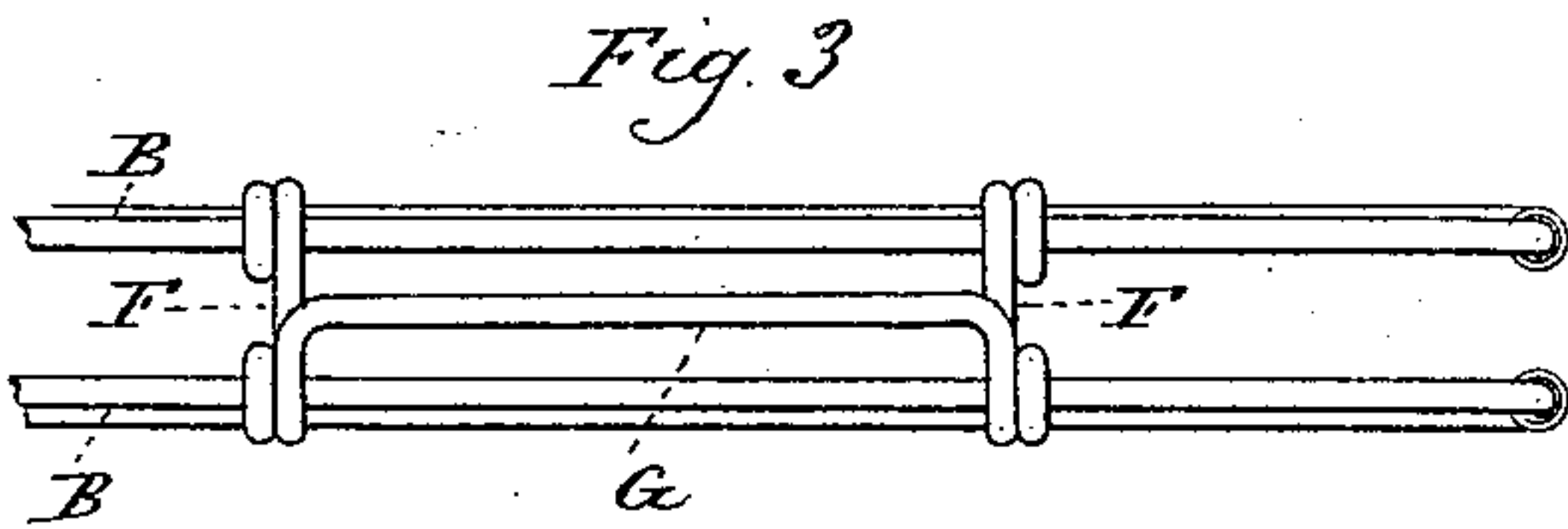
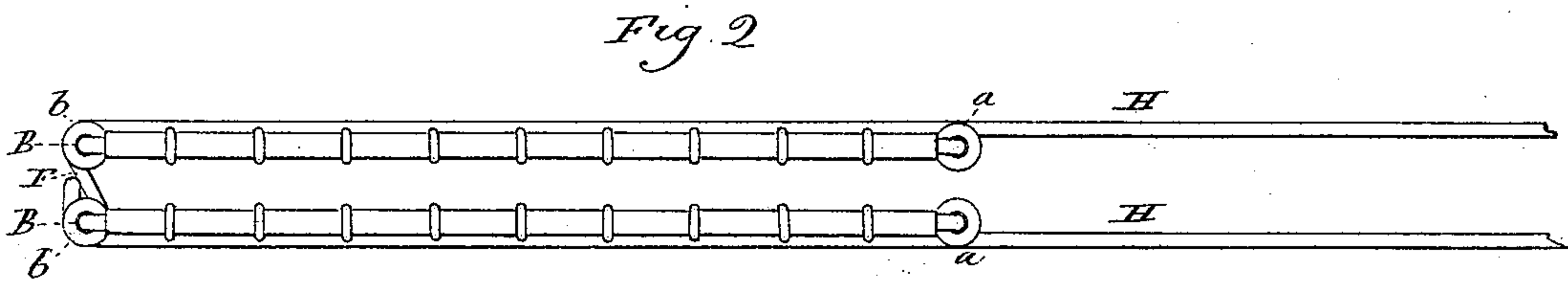
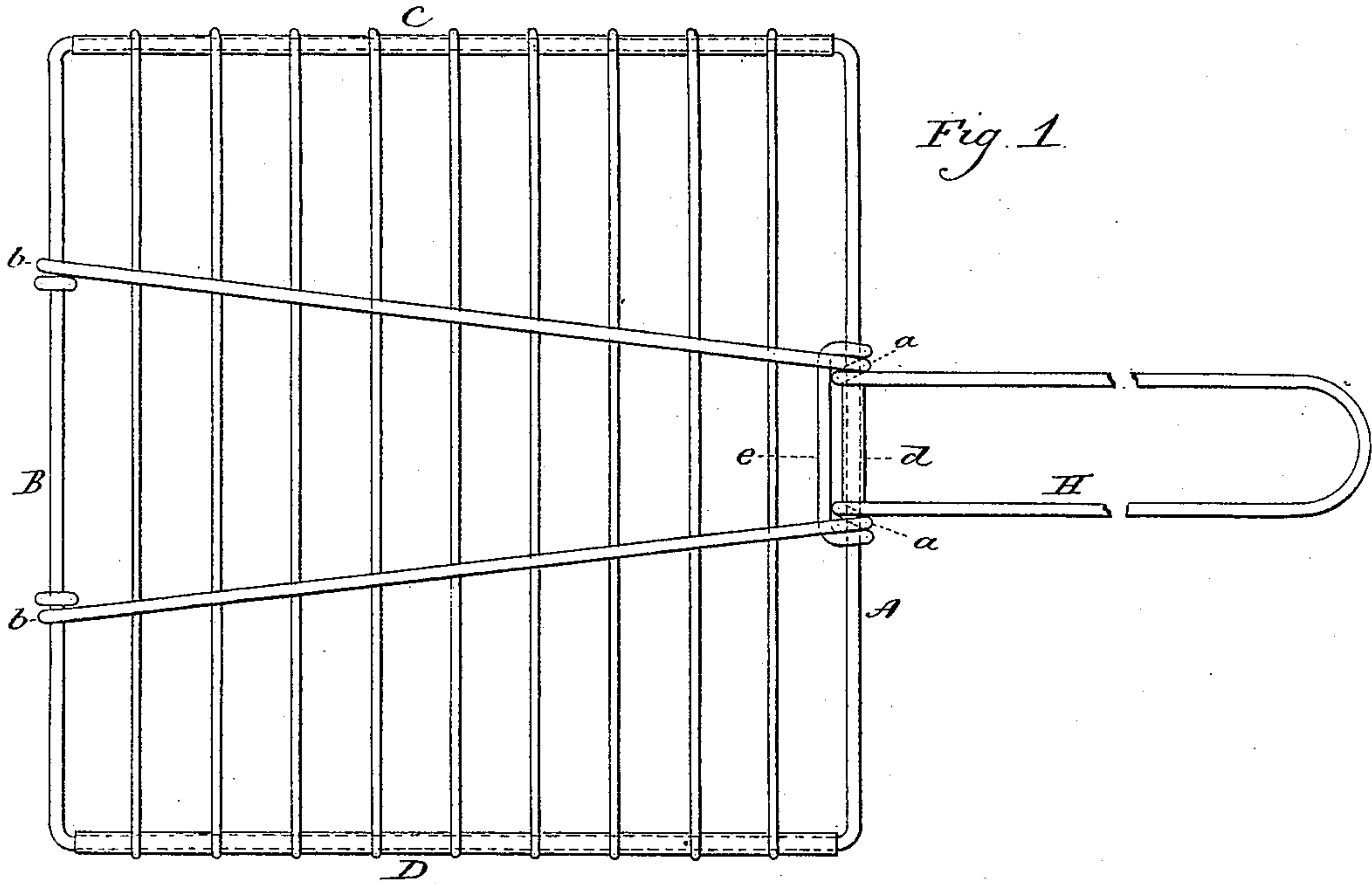


(No Model.)

W. C. PERKINS.
BROILER.

No. 430,401.

Patented June 17, 1890.



Witnesses:
J. H. Shumway
Fred C. Earle.

William C. Perkins
Inventor
By Atty.
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UNITED STATES PATENT OFFICE.

WILLIAM C. PERKINS, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
NEW HAVEN WIRE GOODS COMPANY, OF SAME PLACE.

BROILER.

SPECIFICATION forming part of Letters Patent No. 430,401, dated June 17, 1890.

Application filed July 1, 1889. Serial No. 316,180. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. PERKINS, of New Haven, in the county of New Haven and State of Connecticut, have invented new
5 Improvements in Broilers; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same,
10 and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top view of the broiler complete; Fig. 2, a side view; Fig. 3, a rear view; Fig. 4, a transverse section of the rear sides, showing
15 end view of the hinge; Fig. 5, a perspective view of the hinge detached.

This invention relates to improvements in that class of broilers which are made from wire and composed of a pair of rectangular
20 frames hinged together at one side, each frame having two opposite sides connected by a series of parallel bars, and each frame provided with a handle projecting from the sides opposite the hinges. In the more gen-
25 eral construction of this class of broilers the hinges between the two frames are in the form of wire links, each link independent of the other. One requirement of the hinges is to permit the folding of the frames upon each
30 other either side out. The link-like hinges which I have mentioned, while they serve to hold the two frames from entire separation and permit the folding of the frames either side out, are very loose and afford little sup-
35 port to retain the frames in their proper relation to each other, and frequently after a little use become detached and are a source of great annoyance to the users of such utensils.

The object of my invention is the construc-
40 tion of a hinge for this class of broilers, which shall perform all the requisites mentioned, and at the same time be strong and firm, and so as to always hold the frames in their proper relation to each other, also to improve
45 the broiler in other details of construction; and the invention consists in the construction, as hereinafter described, and particularly recited in the claims. The two frames are of the usual form, herein represented as

rectangular. Each frame is made from wire 50 and composed of two sides A B and ends C D, provided with wire bars E, connecting the opposite ends of each frame, the bars being parallel with the two sides A B, otherwise than the bars running from end to end in-
55 stead of from front to rear. The two parts or complete frames are of substantially usual construction. Two sides of the frame, as B B, are hinged together. The hinge consists of two double loops F F, one end of each loop 60 surrounding one of the said sides B, and the other end of each loop, in like manner, surrounds the other side B, as seen in Figs. 3 and 4. The said loops are connected by a longitudinal bar G, (see Fig. 3,) the said hinge-
65 loops F F and the connecting-bar G being integral. These connected loops form the hinge of my invention. The hinge is best made from a single piece of wire, as seen in Fig. 5, the connecting-bar G being straight,
70 and the loops F F bent at right angles thereto, each end of each loop bent or closed around or surrounding the corresponding side of the frames. The two hinge-loops, being
75 thus rigidly connected, are very firm and can have no play independent of each other, and consequently support the frames in the firmest possible manner yet allow them to be easily reversed.

Each part or frame of the broiler is pro- 80 vided with a U-shaped wire handle H. The two legs of the handles are coiled around the sides A A opposite the hinges, as at *a a*, and thence, diverging, extend to the hinged sides, where the ends of the legs are bent and closed
85 around those hinged sides, as at *b b*. This gives a bracing effect to the frames, adding greatly to their strength, and at the same time the extensions of the handles from front to rear across the bars serve as a support for
90 those bars.

Around the sides A, and between the coils *a a* of the handles, a metal sleeve *d* is placed, which serves to prevent the two legs sliding toward each other. To prevent the separa- 95 tion of the legs, a wire *e* extends across the two legs, its ends bent and closed around the side of the frame close against the coils *a a*,

as seen in Fig. 1. Thus the handles are strongly secured and their accidental detachment, under reasonable usage, prevented.

I claim—

5 1. In a wire broiler, a pair of frames, combined with a hinge made from a single piece of wire bent to form a double loop at each end of and at substantially right angles to the wire, the ends of the two loops on one side
10 closed about one side of the frame, and the other ends of said loops closed around the corresponding side of the other frame, substantially as described.

15 2. A broiler consisting of a pair of wire frames hinged together at one side, with a series of wire bars connecting the ends of the frame and parallel with the sides of the frame, combined with a U-shaped wire handle on each frame, the legs of the U coiled around

the sides opposite the hinges and, thence diverging, extending to and coiled around the hinged sides of the frames, substantially as described. 20

3. A broiler consisting of a pair of wire frames hinged together at one side, with a series of wire bars connecting the ends of the frame and parallel with the sides of the frame, combined with a U-shaped wire handle on each frame, the legs of the U coiled around the sides opposite the hinges, a sleeve *d* 30 around the side between the coils of the legs, and a wire *e*, extending across the said legs, its ends bent around the side of the frame outside said coils, substantially as described.

WILLIAM C. PERKINS.

Witnesses:

FRED C. EARLE,
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