

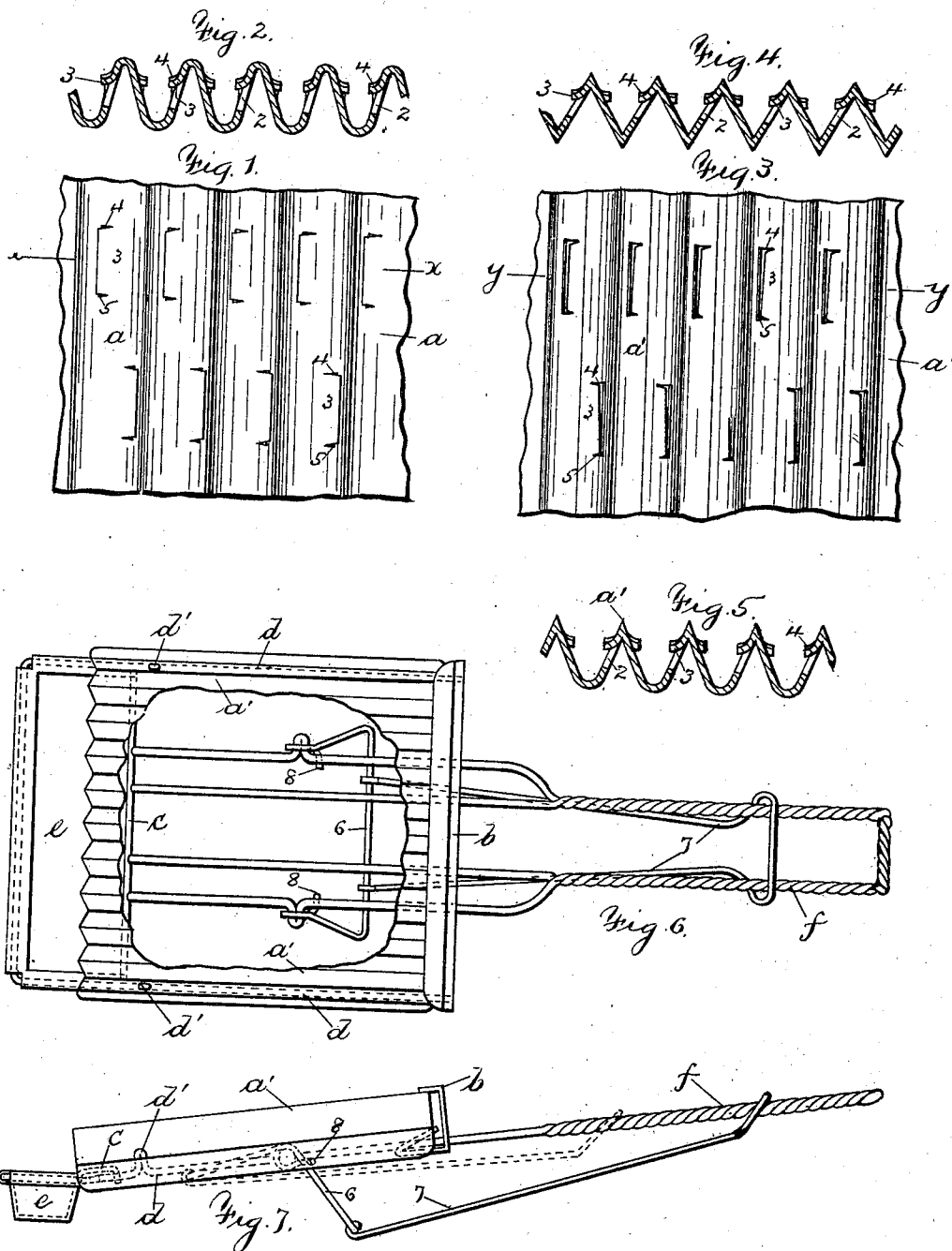
No. 833,529.

PATENTED OCT. 16, 1906.

J. J. JONES.

BROILER.

APPLICATION FILED JAN. 29, 1906.



WITNESSES

A. A. Serrell
Chas. A. Smith

INVENTOR

James J. Jones
PER *Harold Serrell*
his ATTY

UNITED STATES PATENT OFFICE.

JAMES J. JONES, OF NEW YORK, N. Y.

BROILER.

No. 833,529.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed January 29, 1906. Serial No. 298,460.

To all whom it may concern:

Be it known that I, JAMES J. JONES, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented an Improvement in Broilers, of which the following is a specification.

My invention relates to that class of culinary utensils known as "broilers;" and the object thereof is the provision of a broiler particularly adapted for use in the preparation of fatty food, the construction being such that the grease and juices emitted by these foods when being broiled are prevented from falling into the fire and are conveyed to a suitable gutter, from which they may be collected and utilized as desired, and my present invention is an improvement on the forms of broiler shown and described in my application, Serial No. 237,057, filed December 16, 1904.

In carrying out my invention I employ a corrugated sheet-metal plate in which in corresponding positions in the various corrugations I provide elongated horizontally-disposed openings, one or more of the edges of which are outturned, forming lips overhanging the openings to prevent the grease and juices from passing through the said openings. These openings are preferably wider at one end than at the other, whereby the lips forming the upper long edges of the openings are given an inclination greater than that at which the corrugated sheet-metal plate is set when in use.

In the preferred form of my invention the corrugated sheet-metal plate is made with rounded apices and bases, the radius of the curve of the apices being somewhat smaller than that of the bases, which structure gives a greater heating-surface and a greater bearing-surface for the foods to be broiled than is the case with angular corrugations and also provides a rounded channel for conveying the grease and juices to the gutter, which is more readily cleaned than an angular channel, and at the same time offers little or no more resistance to the flow of the grease and juices.

In the drawings, Figure 1 is a partial plan of the corrugated sheet-metal plate of my improved broiler. Fig. 2 is a cross-section on line *xx*, Fig. 1. Fig. 3 is a partial plan of a modification of the corrugated member. Fig. 4 is a section on line *yy*, Fig. 3. Fig. 5 is a section of another modification of the

corrugated sheet-metal plate. Fig. 6 is a plan showing the corrugated sheet-metal plate mounted in a frame, and Fig. 7 is a side elevation of the same.

a designates a corrugated sheet-metal plate of the preferred form of my invention, in which both the bases and apices of the corrugations are rounded, the radius of the curve of the apices being somewhat less than that of the bases. The portions intervening between the bases and apices of each corrugation are provided in similar suitably-spaced-apart positions with horizontally-disposed elongated openings 2, each of which is preferably wider at one end than at the other, although I do not limit myself in this respect. The upper long edges of the openings 2 are outturned, as lips 3, which form guides or channels above and overhanging the openings to prevent the grease and juices passing therethrough, and owing to the openings being wider at one end than at the other the lips 3 and the guides or channels formed thereby are at a greater inclination than the corrugated sheet-metal plate when fixed in the frame, hereinafter described, ready for use to direct and convey the grease and juices down to the imperforate surface of the plate and prevent the same dropping through the aforesaid openings.

The longer of the short edges of the openings 2 may be outturned, forming the lips 4, as may also be the opposite edges, forming the lips 5; but, as will be readily understood, it is not absolutely necessary that these latter-named edges be outturned.

In Figs. 3 and 4 I have illustrated a sheet-metal plate *a'*, having angular corrugations provided with the peculiarly-shaped openings hereinbefore described, and while I prefer to employ the sheet-metal plate having the bases and apices of the corrugations rounded it will be understood that this form may be employed without departing from the spirit of my invention.

In Fig. 5 I have shown a section of a still further modification of the corrugated plate in which the bases of the corrugations are rounded and the apices are angular. By constructing the plates with the bases of the corrugations rounded not only is a greater heating-surface obtained, but the surface of the channels between the corrugations is curved, and consequently may be much more readily cleaned than if it were angular.

Together with the hereinbefore-described

sheet-metal plates I employ a suitable frame to which the same may be detachably connected. This frame, as shown, may comprise end members *b c*, respectively, connected by the side members *d*, made of wire or other material, which may pass through the end member *c* and support an end gutter *e*, and adjacent to the end member *c* the side members *d* are provided with upwardly-extending projections *d'*. At one end the corrugated sheet-metal plate fits within the frame end member *b* and at the sides on the opposite end is provided with apertures adapted to receive the projections *d'* of the sides *d*, by which means the corrugated sheet-metal plate is detachably connected to the frame. I also employ a handle *f* and a wire-support connected therewith in such a manner as to support the frame and corrugated plate at the desired inclination for use, and this stand may include a member 6, pivotally connected to the handle between the end members of the frame, and a member 7, hinged to the member 6 and passed over the outer portion of the handle *f*, the parts supporting the frame in this relation by means of the lugs or projections 8 of the member 6 contacting with the handle members. These parts, however, form no part of my present invention, and hence require no further description.

I claim as my invention—

1. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings in similar positions in each corrugation, the upper edge of each opening being outturned to form a lip overhanging said opening to prevent the escape therethrough of the meat-juices in broiling.

2. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings similarly placed in each corrugation, each opening being wider at one end than at the other and having its upper edge outturned to form a lip overhanging

said opening to prevent the escape therethrough of the meat-juices in broiling.

3. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings similarly placed in each corrugation, each opening being wider at one end than at the other and having its upper edge and longer short edge outturned to form lips, the upper lip overhanging said opening to prevent the escape therethrough of the meat-juices in broiling.

4. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings similarly placed in each corrugation, each opening being wider at one end than at the other and having its upper and both short edges outturned to form lips, the upper lip overhanging said opening to prevent the escape therethrough of the meat-juices in broiling.

5. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings in similar positions in each corrugation, the upper edge of each opening being outturned so as to form a lip inclined to the edge of the apices of the corrugated plate and overhanging said opening to prevent the escape therethrough of the meat-juices in broiling.

6. A broiler comprising a corrugated sheet-metal plate having elongated longitudinally-disposed openings in similar positions in each corrugation, the upper edge of each opening being outturned to form a lip overhanging the opening to catch the meat-juices, a wire frame, and means for detachably connecting the sheet-metal plate to the said frame.

Signed by me this 10th day of January, 1906.

JAMES J. JONES.

Witnesses:

GEO. T. PINCKNEY,
BERTHA M. ALLEN.