R. F. TEALL.

TOASTER.

APPLICATION FILED MAR. 15, 1920.

1,375,122. Patented Apr. 19, 1921.

Fig. 1.

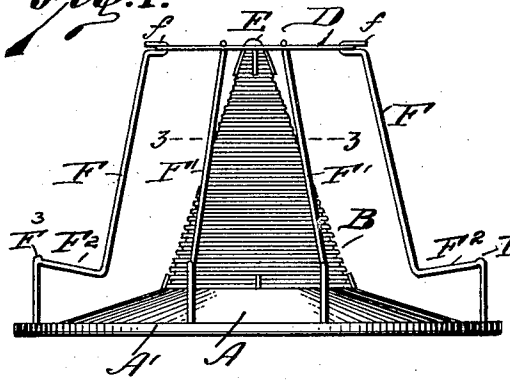


Fig. 2.

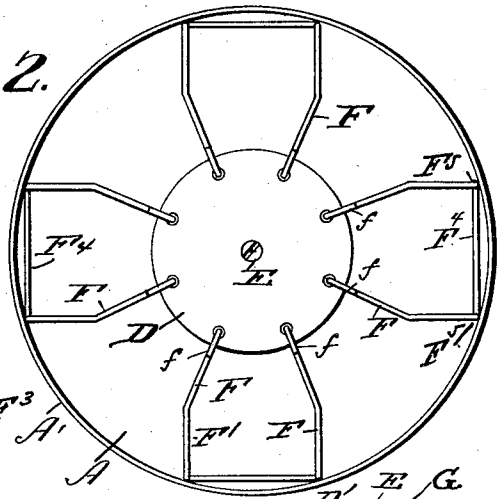


Fig. 3.

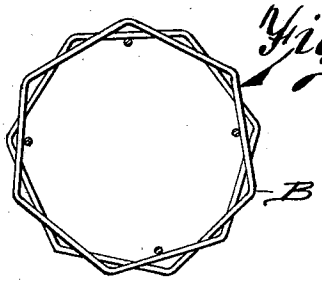


Fig. 7

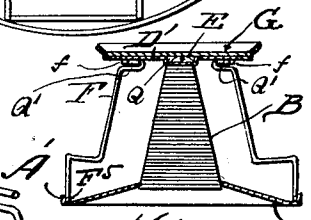


Fig. 4.

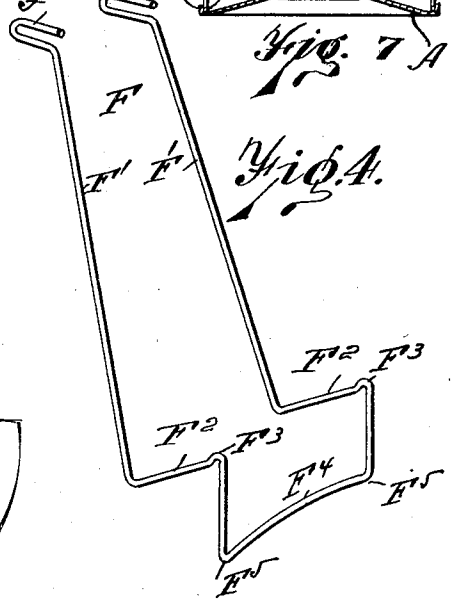


Fig. 6.

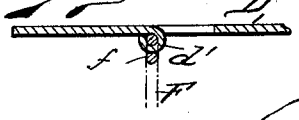
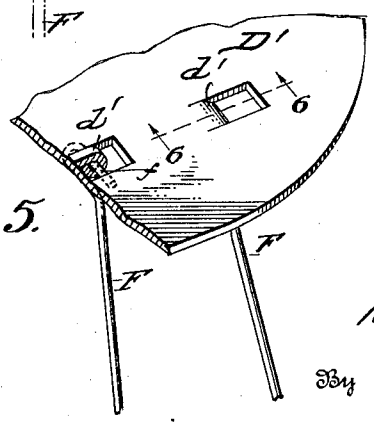


Fig. 5.



Inventor

Russel Ford Teall

By E. E. Thomas Attorney

UNITED STATES PATENT OFFICE.

RUSSELL F. TEALL, OF TOLEDO, OHIO, ASSIGNOR TO CHARLOTTE J. WILLIS, OF ANN ARBOR, MICHIGAN.

TOASTER.

1,375,122. Specification of Letters Patent. Patented Apr. 19, 1921.

Application filed March 15, 1920. Serial No. 366,104.

To all whom it may concern:

Be it known that I, RUSSELL F. TEALL, citizen of the United States, residing at Toledo, county of Lucas, State of Ohio, have invented a certain new and useful Improvement in Toasters, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to toasters, shown in the accompanying drawings and more particularly described in the following specification and claims.

Among other objects my invention is designed as an improvement in the general construction of the toaster shown and described in U. S. Patent No. 735,369, dated August 4, 1903, issued to J. E. Harkins and J. B. Willis, and now owned by the present applicant.

An objection raised against the device referred to and which the present invention is designed to overcome results in the shipping of the device from the manufacturer to the wholesale dealer or jobber. It has been the practice to "nest" these devices together for shipping purposes, with the result that the wires forming the bread racks frequently become entangled with each other so that upon separating them they are frequently put out of shape—necessitating the rebending of the parts to put them in proper shape for use and sale.

It has also been found that the construction of the wire rack bars is such that they are more or less frail and easily disfigured or bent out of shape.

One of the objects therefore of the present invention is to provide rack bars which will not become entangled when the toasters are nested together for shipment.

Another object of the invention is to make a more rigid structure, and to reduce the manufacturing cost by eliminating the cross-supports of sheet metal employed in the former device, by so constructing the wire rack bars that they may support the toast and a metal disk adapted to serve as a heat deflector and also to support a plate on which to keep the toasted bread warm.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes may be made in the precise embodiment of the invention herein disclosed, without departing from the spirit of the same.

In the accompanying drawings:—

Figure 1 is a side elevation of the toaster.

Fig. 2 is a plan view of the same.

Fig. 3 is a cross-sectional view through the wire cone on line 3—3 of Fig. 1.

Fig. 4 is a perspective view of one of the wire rack bars.

Fig. 5 is a fragmentary perspective view showing a modification of the manner of securing the rack bar to the metal disk above, which is preferably large enough to support a plate of toast.

Fig. 6 is a detail sectional view on line 6—6 of Fig. 5.

Fig. 7 is a vertical cross-sectional view of the modification of the toaster, showing an overhanging top plate with the upper end of the toast racks engaged to the underside of the plate.

Referring now to letters of reference placed upon the drawings:—

A, denotes an annular truncated cone-shaped base plate having an upstanding rim A′, on its outer edge.

B, indicates a cone-shaped heating element, formed of interwoven wire, mounted upon the base plate, surrounding its central opening.

D, designates a metal disk secured to the upper end of the heating element by a bolt E, extending through the disk and into the contracted end of the latter, where it is fitted with a nut (not shown), adapted to impinge upon the inner surrounding wall of the heating element.

F, denotes a plurality of wire racks for supporting the toast, comprising two connected members F′, F′, spaced apart having hooked-shaped ends *f*, engaged with the top plate through apertures provided for their reception. The members F′, F′, extend downwardly and outwardly from the top plate and are formed with a stepped portion F^2, near the base on which to rest the toast;—the outer edge of the stepped portion being bent upwardly to form a ledge F^3, to keep the toast from slipping off of

the stepped portion. The members F′, F′, extend downwardly from the ledge F³, to the base plate A, against the upstanding rim A′, at the outer edge of the latter. The side members F′, F′, are connected by the integral looped arc-shaped portion F⁴, of the wire, overlapping the base plate. The arc-shaped bend of the connecting loop provides a relatively sharp contracting foot F⁵, F⁵, below each side member which is adapted to bear upon the base plate in the corner formed by the upstanding rim A′, thereby affording greater security against accidental displacement.

In the modification shown in Figs. 5, 6, and 7, the metal disk D′, is relatively larger than the disk D, shown in Figs. 1 and 2, and is provided with a smooth upper surface on which to rest a plate G, for holding the toast when made. The central part of the disk is recessed as indicated at Q, to receive the head of the screw or bolt E, while the downwardly projecting loops Q′, are struck from the body portion of the plate to receive the hooked ends of the wire toast racks F, beneath the plate, that the upper surface of the latter may be smooth and free from obstructions which would interfere with the placing of a plate thereon to receive the toast.

By providing a relatively large disk adapted to overhang the upper edge of the toast, the heat is deflected downwardly upon the upper edges of the toast and serves to equalize the heat radiated by the upper contracted end of the heating element,—which is farther away from the flame,—with that of the lower enlarged end of the heating element adjacent to the flame, thereby producing toast of an even color throughout its entire surface.

Having thus described my invention, what I claim is:—

1. In a toaster, the combination of an annular cone-shaped sheet metal base having a central opening and an outer marginal upstanding rim, a cone-shaped heater extending upwardly from the central opening in the cone-shaped base, a sheet metal disk secured to the top of the cone-shaped heater, and a plurality of looped wires including spaced members extending from the disk to the base and having their looped parts arranged at the lower ends of the wires, the wires each having stepped portions upon which to rest the bread to be toasted, the outer end of each stepped portion being bent slightly upwardly to form a stop to prevent dislodgment of the bread from the steps, the aforesaid looped parts of the wires being arched and providing spaced relatively sharp contacting feet portions to bear firmly in the joint between the base plate and said marginal upstanding rim, the upper ends of the wires being bent to form hooks for detachable engagement with said sheet metal disk, and said looped wires being confined wholly within the diameter of the base.

2. In a toaster, the combination of an annular truncated cone-shaped base, having a marginal upstanding rim, a cone-shaped heater extending upwardly from the base, a sheet metal disk secured to the top of the heater, and a plurality of wires spaced apart and extending from the disk to the cone-shaped base and respectively formed with upwardly inclined stepped portions, the outer end of each stepped portion being bent upwardly to form a stop, the stepped portions and the stops being confined wholly within the diameter of the base and detachably supported at their lower ends in the joint between the body of the base and the marginal rim thereof, the upper ends of the wires having hooked connections with said metal disk.

In testimony whereof I sign this specification in the presence of two witnesses.

RUSSELL F. TEALL.

Witnesses:
CARL D. ELLENBOGEN,
SAMUEL E. THOMAS.