

A. CRUMBIE.
Reels for Ovens.

No. 142,003.

Patented August 19, 1873.

Fig. 1.

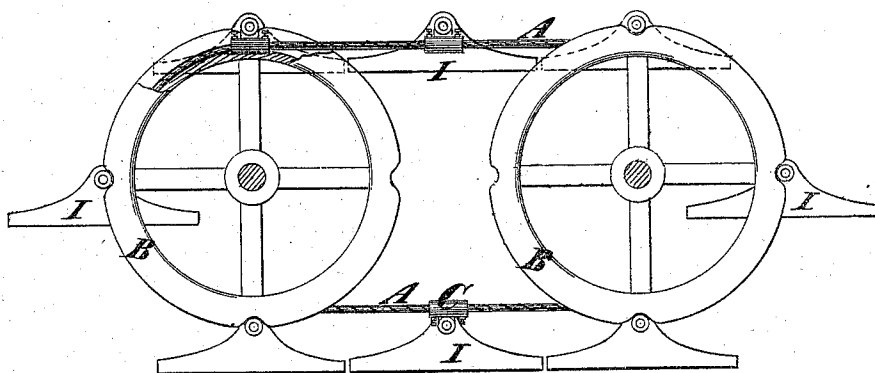


Fig. 2.

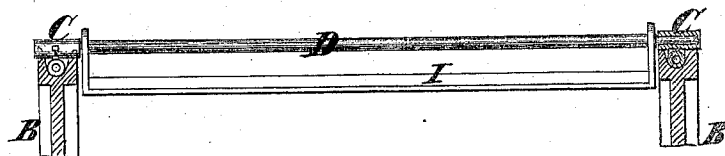
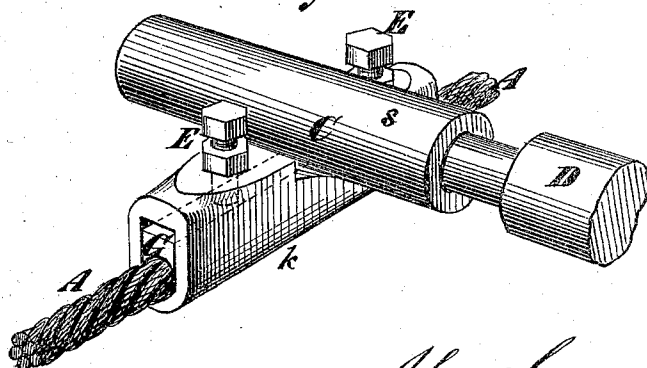


Fig. 3.



Witnesses
John Becker
Fred Haynes

Alex. Crumbie
by his attorney
Rumrill & Allen

UNITED STATES PATENT OFFICE.

ALEXANDER CRUMBIE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN REELS FOR OVENS.

Specification forming part of Letters Patent No. **142,003**, dated August 19, 1873; application filed April 25, 1873.

To all whom it may concern:

Be it known that I, ALEXANDER CRUMBIE, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Mechanical Ovens, of which the following is a specification:

This invention relates to the substitution of wire-rope bands for the link chains heretofore employed to carry the shelves of mechanical ovens. It consists in a novel contrivance for attaching to the bands the rods which support the shelves or pans. It also consists in a peculiar construction of the wheels that receive the aforesaid bands, whereby not only are the bands prevented from slipping, but a proper relation between the bands and pans is sustained.

In the drawing, Figure 1 is a side view of the shelves and traveling gear of an oven made according to my invention. Fig. 2 is a side view of one of the shelves and transverse section through the upper portion of one of the wheels, and Fig. 3 is a perspective view of one of the contrivances employed to attach the shelf-supporting rods to the bands.

Similar letters of reference indicate corresponding parts in all three figures.

A A are the bands which carry the shelves, and B B are the wheels over which they run. These wheels have double flanges at their periphery, which embrace the bands between them, and are notched at regular intervals to receive the connecting devices C C, which attach the rods D D to the bands. The shelves I I themselves are of the usual form, consisting of flat plates, having their ends bent up to afford a means of attachment to supporting-rods, and likewise having the back edges turned up. The shelves are so attached to their rods as to be free to swing, so as to preserve their longitudinal position irrespective of the situation of the rods from which they are supported.

The bands A A in this case consist of wire ropes, and the connecting devices C C, used to attach the shelf-supporting rods D to them, consist of two sockets arranged at right angles to each other and joined at the middle. The sockets *s s* are circular and receive the rods D D; but the other sockets *k*, which embrace the bands or cords A A, are of elongated form in their transverse section. They are furnished with dogs or clamping-pieces G G, which are made to bite on the cords by means of screws E E. On these screws jam-nuts are provided to prevent them from turning.

By means of this invention the shelf-supporting rods are very securely attached to the bands, in such manner that their travel around the wheels is nowise interfered with. Moreover, the shelves can readily be adjusted on the bands, so that a proper relation is always maintained between them.

The construction of the wheels prevents the bands from slipping off, and the notches provided in their flanges for the reception of the devices connecting the shelf-supporting rods to their bands obviates the slipping of the bands on the wheels.

Wedges or keys may be used instead of the screws to operate the clamping-piece G.

What I claim as my invention is—

1. The connecting device consisting of the transversely-attached sockets *s k*, clamping-piece G, and set-screws E, or their equivalents, in combination with the endless band A and rod D, substantially as and for the purpose herein specified.

2. The wheels B B, constructed with double flanges, notched as described, in combination with the sockets *s k*, substantially as and for the purpose herein set forth.

ALEXANDER CRUMBIE.

Witnesses:

MICHAEL RYAN,
FRED. HAYNES.