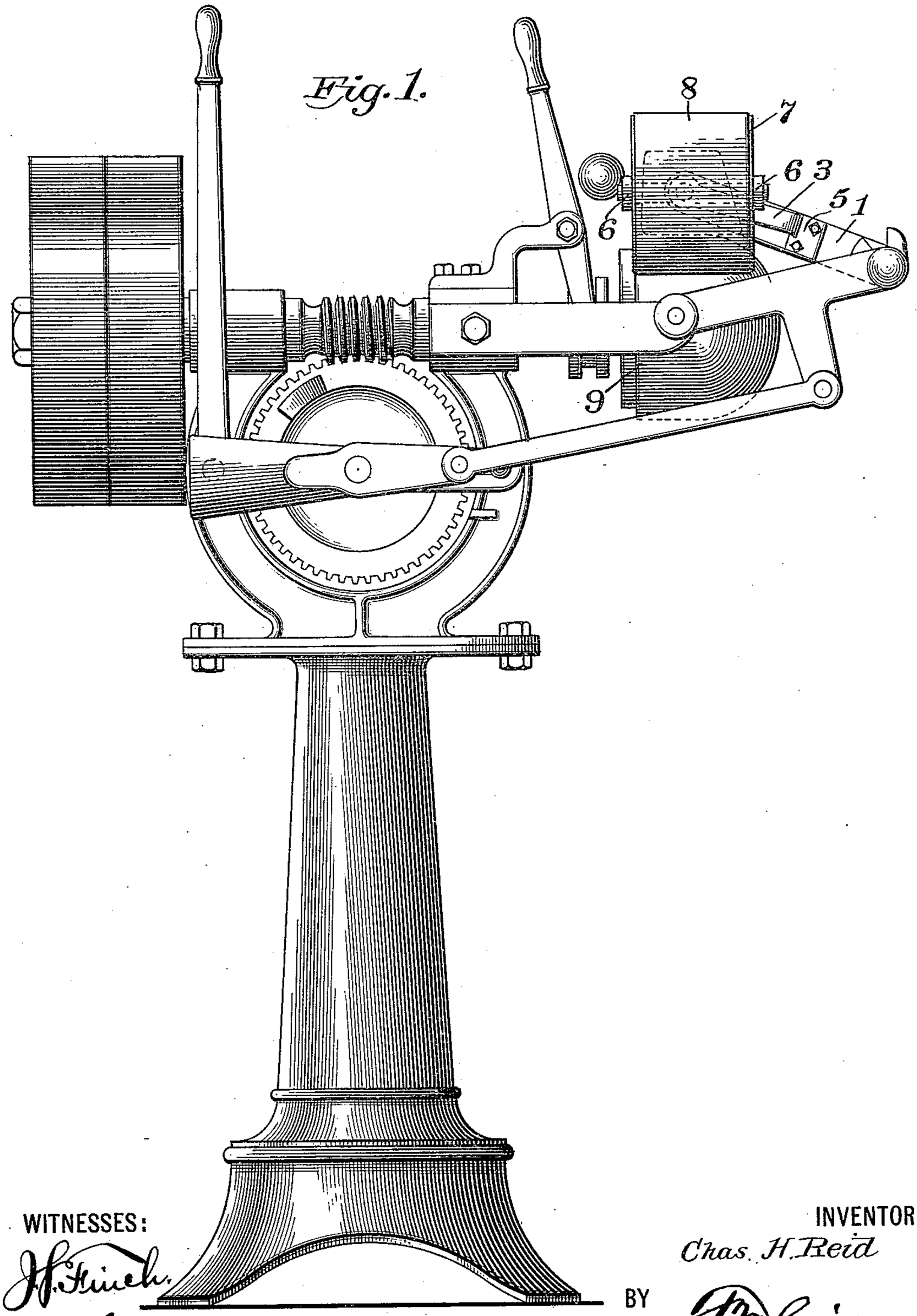
(No Model.) 2 Sheets—Sheet 1.

# C. H. REID.

## HAT IRONING MACHINE.

No. 547,132. Patented Oct. 1, 1895.

Fig. 1.




WITNESSES:

H. Finch.

M. I. Loughlen

INVENTOR

Chas. H. Reid

BY

J. M. Smith Jr.

ATTORNEY

(No Model.) 2 Sheets—Sheet 2.

# C. H. REID.

## HAT IRONING MACHINE.

No. 547,132. Patented Oct. 1, 1895.

*Fig. 2.*

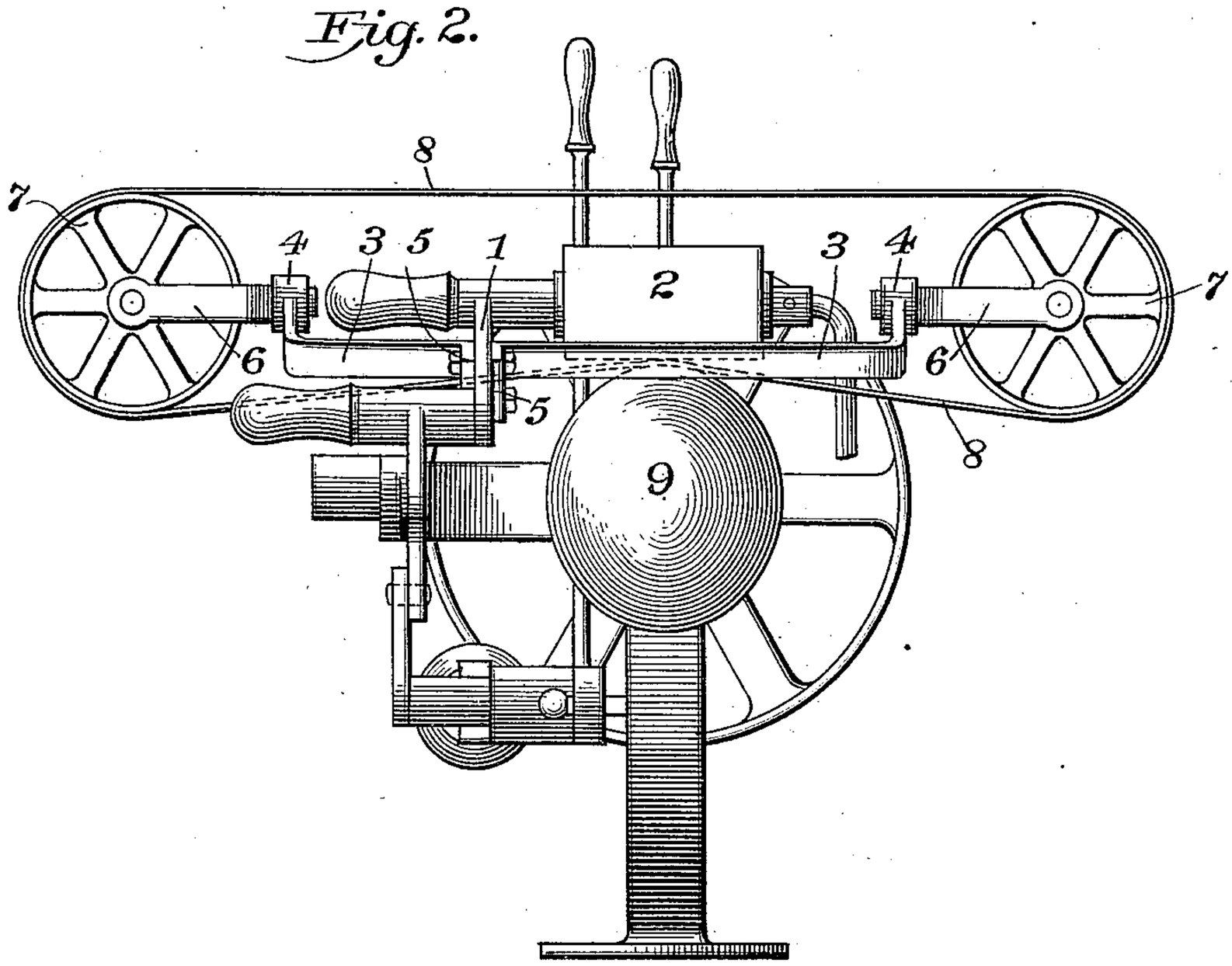
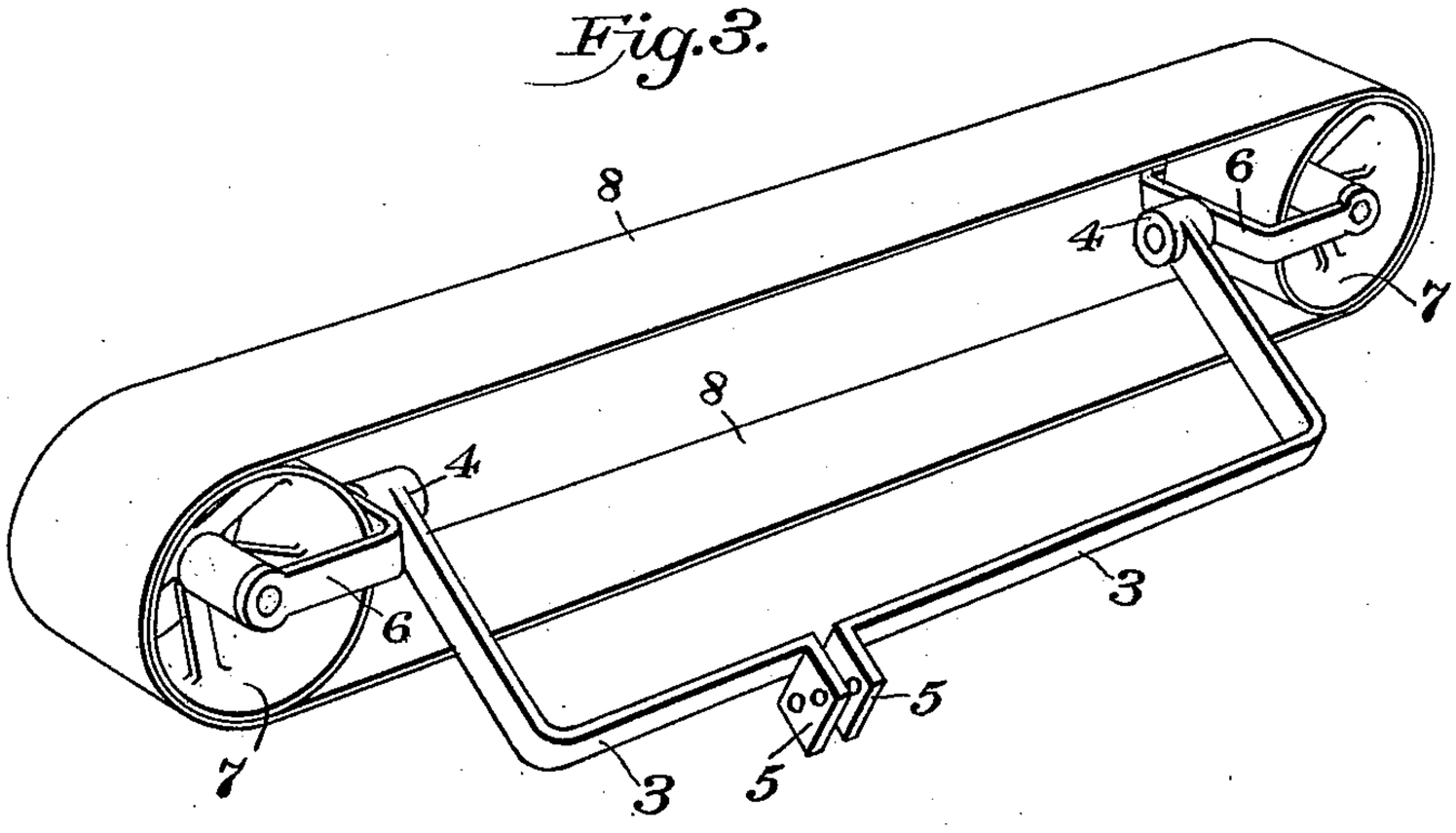



*Fig. 3.*




WITNESSES:

J. F. Hinch.

M. T. Longden

INVENTOR

Chas. H. Reid

BY

C. M. Smith Jr.

ATTORNEY

# UNITED STATES PATENT OFFICE.

CHARLES H. REID, OF DANBURY, CONNECTICUT.

## HAT-IRONING MACHINE.

SPECIFICATION forming part of Letters Patent No. 547,132, dated October 1, 1895.

Application filed November 23, 1894. Serial No. 529,752. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. REID, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Hat-Ironing Machines; 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.

My invention relates to certain improvements in hat-ironing machines, but is especially intended as an improvement upon the construction shown and described in Letters Patent No. 420,961, issued to me February 11, 1890, and in my pending application for Letters Patent, filed September 21, 1894, Serial No. 523,730.

The object of my present invention is to prevent the burning of the hat by the iron, to prevent the iron from coming in contact with the stiffening of the hat and thereby smouching the same, and to produce a neat and finished appearance, such as is indispensable in hats of the first quality.

My invention is especially applicable in the instance of hats which are treated with what is termed a "wine stiff," since in such hats the heat from the iron will draw the stiffening to the surface of the hat, where it will become quickly dried and smeared by the hot iron when the latter is in direct contact with the hat.

With these ends in view my invention consists in the details of construction and combination of elements, such as will be hereinafter fully set forth, and then specifically designated by the claims.

In the accompanying drawings, which form a part of my specification, Figure 1 is a side elevation of a hat-ironing machine equipped with my improvement; Fig. 2, a front elevation of the same, and Fig. 3 a detail perspective of my improved attachment.

Similar numbers of reference denote like parts in the several figures of the drawings.

I have shown my invention as attached to a machine precisely like that shown and described in my pending application above referred to, and I will therefore enter into no description of the hat-ironing machine proper, since the same forms no part of my present invention.

1 is the swinging bar, 2 the hat-iron pivoted at the inner end of said bar, and 9 the rotary chuck for supporting the hat, precisely as is shown and described in my aforesaid application.

3 is a frame provided at its extremities with journals 4 and having ears 5, which latter are securely bolted to the bar 1, whereby the frame is fixed in position. Swiveled within said journals are stirrups 6, within which are journaled band-wheels 7. 8 is an endless belt, of cloth or other suitable material, carried by said wheels, which belt also incloses the iron above and below the same.

When the iron is in use, the revolving hat will, by friction, cause the belt to travel in unison therewith, so that there can be no chafing between said belt and hat. As the iron travels from the sides of the hat to the tip thereof, the journals of the stirrups will swing around, thereby causing the belt to always present a flat surface to the hat. In other words, the belt partakes of the movements of the iron along the sides and around the tip of the hat, this being of course due to the fact that said belt is carried by the bar which supports the iron.

It is immaterial whether the belt be supported upon the iron or upon the part which carries the iron, the gist of my invention in this respect resting in the broad idea in arranging and supporting the belt so that it will move in harmony with the iron and will always be interposed between the latter and the hat to be ironed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a hat ironing machine, the combination of the rotatory chuck, the hat iron and the bar to which said iron is connected, with an endless belt of cloth interposed between said iron and chuck and supported by said bar, said belt being caused to revolve in unison with the chuck by frictional contact with the latter, substantially as set forth.

2. In a hat ironing machine, the combination of the rotatory chuck, the iron and the

bar to which the latter is connected, with the frame secured to said bar, the band-wheels journaled within said frame, and the endless belt of cloth carried by said wheels and inclosing said iron above and below, substantially as set forth.

3. In a hat ironing machine, the combination of the chuck, the hat iron and the bar to which the latter is connected, with the frame secured to said bar, the stirrups swiveled to said frame, the band wheels journaled within said stirrups, and the endless belt of cloth carried by said wheels and inclosing said iron, substantially as set forth.

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

CHARLES H. REID.

Witnesses:

EUGEN C. DEMPSEY,

JOHN R. BOOTH.