

(No Model.)

S. M. BRUNDAGE.  
DEFLECTOR FOR IRONING MACHINES.

No. 509,510.

Patented Nov. 28, 1893.

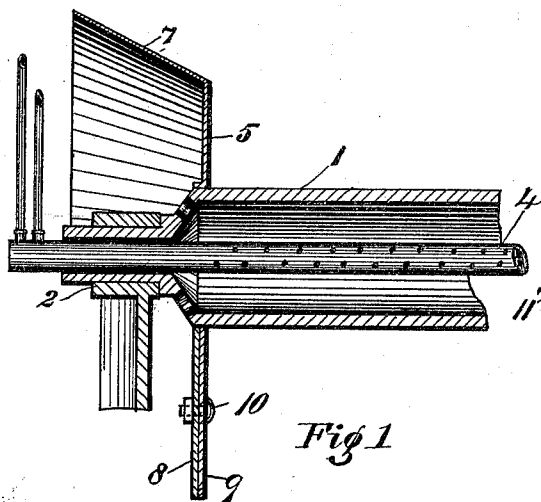


Fig 1

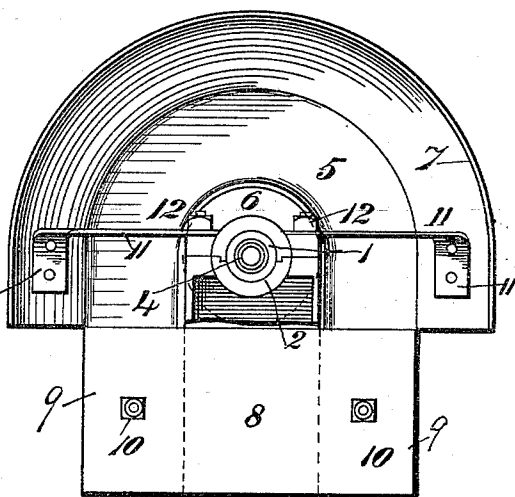


Fig 2

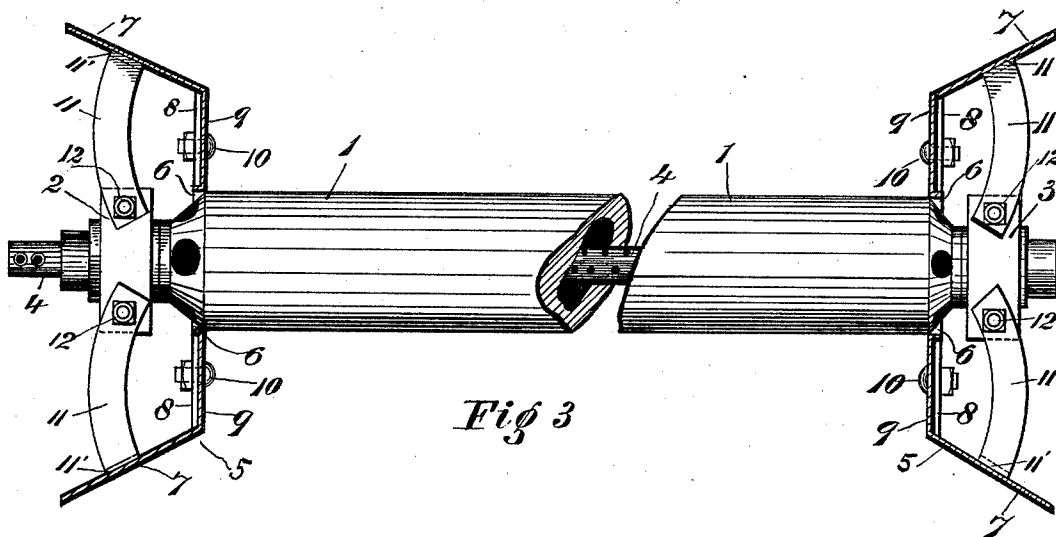


Fig 3

Witnesses

*Stella Snider.*  
*H. C. Bauer.*

Inventor

*Samuel M. Brundage*  
By his Attorney  
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# UNITED STATES PATENT OFFICE.

SAMUEL M. BRUNDAGE, OF INDIANAPOLIS, INDIANA.

## DEFLECTOR FOR IRONING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 509,510, dated November 28, 1893.

Application filed June 17, 1891. Serial No. 396,644. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL M. BRUNDAGE, a citizen of the United States of America, residing at Indianapolis, in the county of Marion and State of Indiana, have invented new and useful Improvements in Deflectors for Ironing-Machines, of which the following is a specification.

My invention relates to a new and improved device to be applied to the ends of ironing rollers for shirt neck-band, wrist band, collar and cuff ironing machines; and consists in a removable shield of semicircular form and having a flaring rim or flange as hereinafter set forth and claimed.

The object of my invention is to provide a shield that will deflect the flame and unconsumed gases, soot, smoke and grease away from the finished and smooth surface of the ironing roller and to protect the operator from the heat produced by the ignited gases that escape from the openings at the ends of the hollow roller. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1. is a sectional elevation of the end of an ironing roller showing the shield applied thereto. Fig. 2. is a front elevation of the shield showing its supporting arms secured to the journal box of the ironing roller. Fig. 3. is a broken plan view of the ironing roller showing the shields in section and applied to both ends of said roller.

Similar numbers of reference designate like parts throughout the several views.

1. designates an ironing roller journaled in the boxes 2. and 3. formed on the main frame of the machine.

4. designates the perforated heater pipe or burner which is introduced through the end opening of the roller into the interior thereof for maintaining the roller at a continuous and uniform heat.

5. designates the deflecting shield projecting downwardly below the roller, and having its top or upper part semicircular in form and may be constructed of either sheet-iron, tin, asbestos-paper or any suitable noncombustible or nonconducting material. The central opening 6. of the shield is formed with its top semicircular and of a radius conforming

with the radius of the ironing roller to which it is applied. Said opening is continued downwardly with its opposite sides parallel for the purpose of permitting the application or removal of said shield to or from the roller without removing the latter from the machine.

7. designates the flame deflecting flange of the shield flared outwardly in the form of a truncated cone and formed continuously around the semicircular top thereof and is integral therewith.

8. designates the guard plate removably secured to the legs 9. of the shield by the securing bolts 10.

11. designates the supporting arms of the shield having their feet 11' firmly secured (by rivets or other suitable securing device) to the inner opposite surfaces of the deflecting flange 7. and having their inner ends firmly bolted either to the journal box of the frame by the cap bolts 12. or to any other accessible portion of the main frame of the machine and thereby holding the shield in its true vertical position at the end of the roller.

By applying the deflector in the manner as shown in the drawings and herein described, all inconvenience from radiated heat, grease and dirt is effectually avoided and the use of which materially adds to the comfort of the operator while at work.

Having thus fully described the construction, nature, and application of my invention, what I claim as novel and useful, and desire to cover by Letters Patent of the United States therefor, is—

1. In an ironing machine, the combination of the ironing roller and the supporting frame thereof, with a shield 5. having its outer surface at right-angles to the axis of said roller, an outwardly flaring flange 7, formed on the periphery of said shield and suitable supporting arms whereby said shield is secured and held in its true vertical position at the ends of said roller to protect the goods ironed from grease, dust and soot; substantially as set forth.

2. In an ironing machine, the combination with the ironing roller and the supporting frame thereof, of a deflecting shield, as 5. having the central opening 6. the downwardly projecting legs. 9. the guard plate 8. remov-

ably secured to said legs, the outwardly flaring flange 7. formed on the upper periphery of said shield and integral therewith, and suitable supporting arms whereby said shield is  
5 held transversely to said roll and at the end thereof, all substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SAMUEL M. BRUNDAGE.

Witnesses:

STELLA SNIDER,  
HARY. C. BAUER.