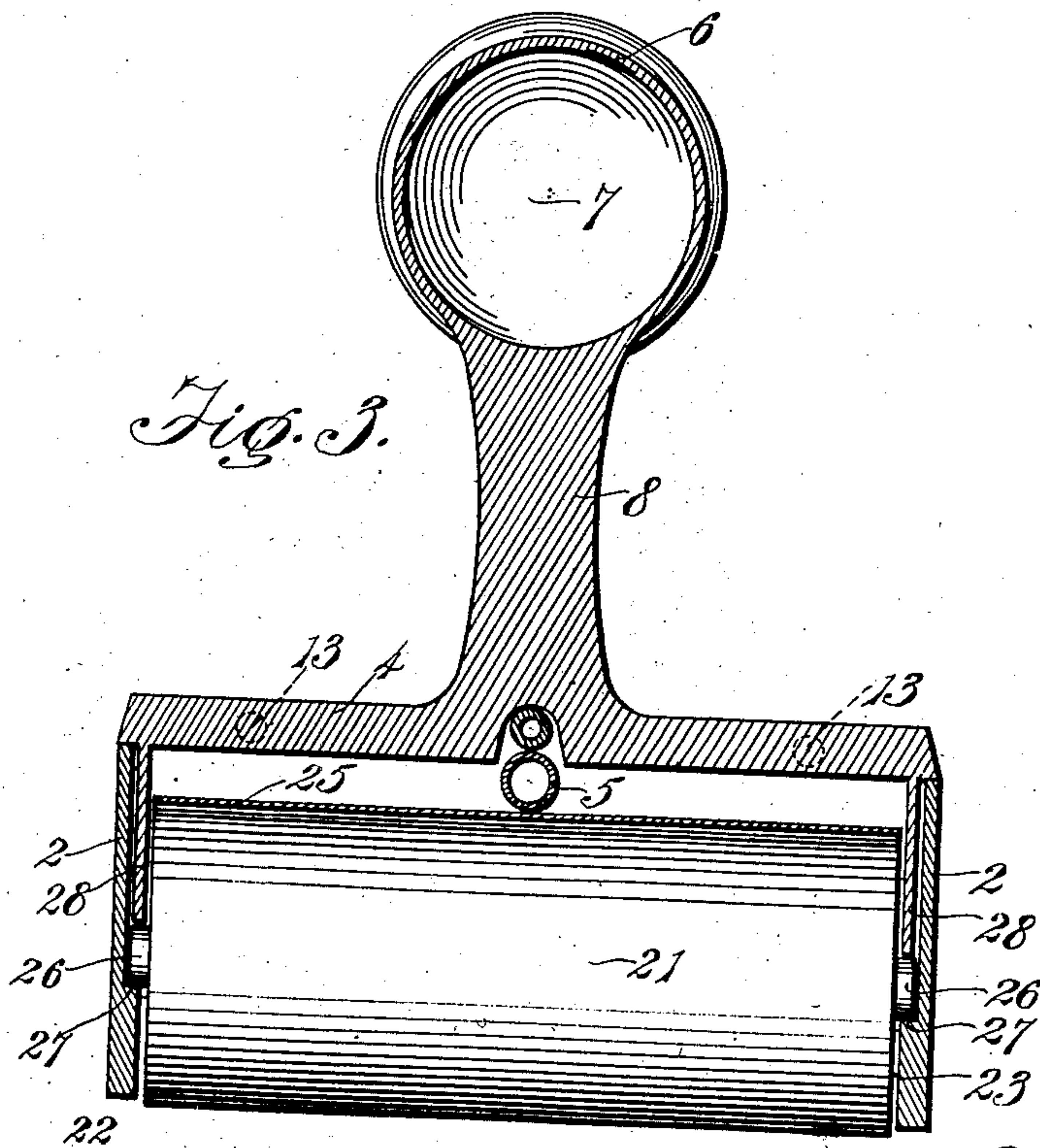
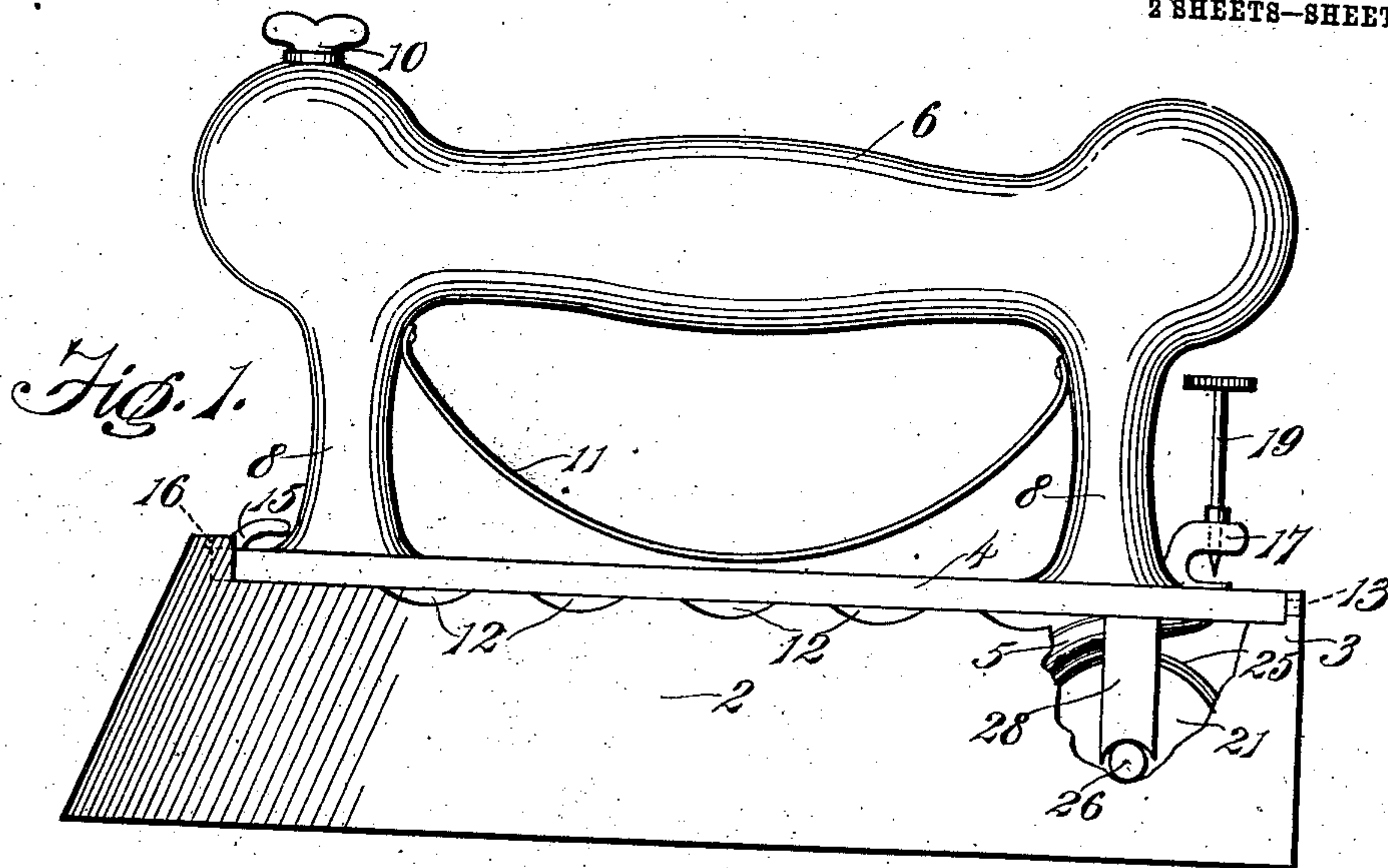


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Patented Jan. 5, 1909.
2 SHEETS—SHEET 1.



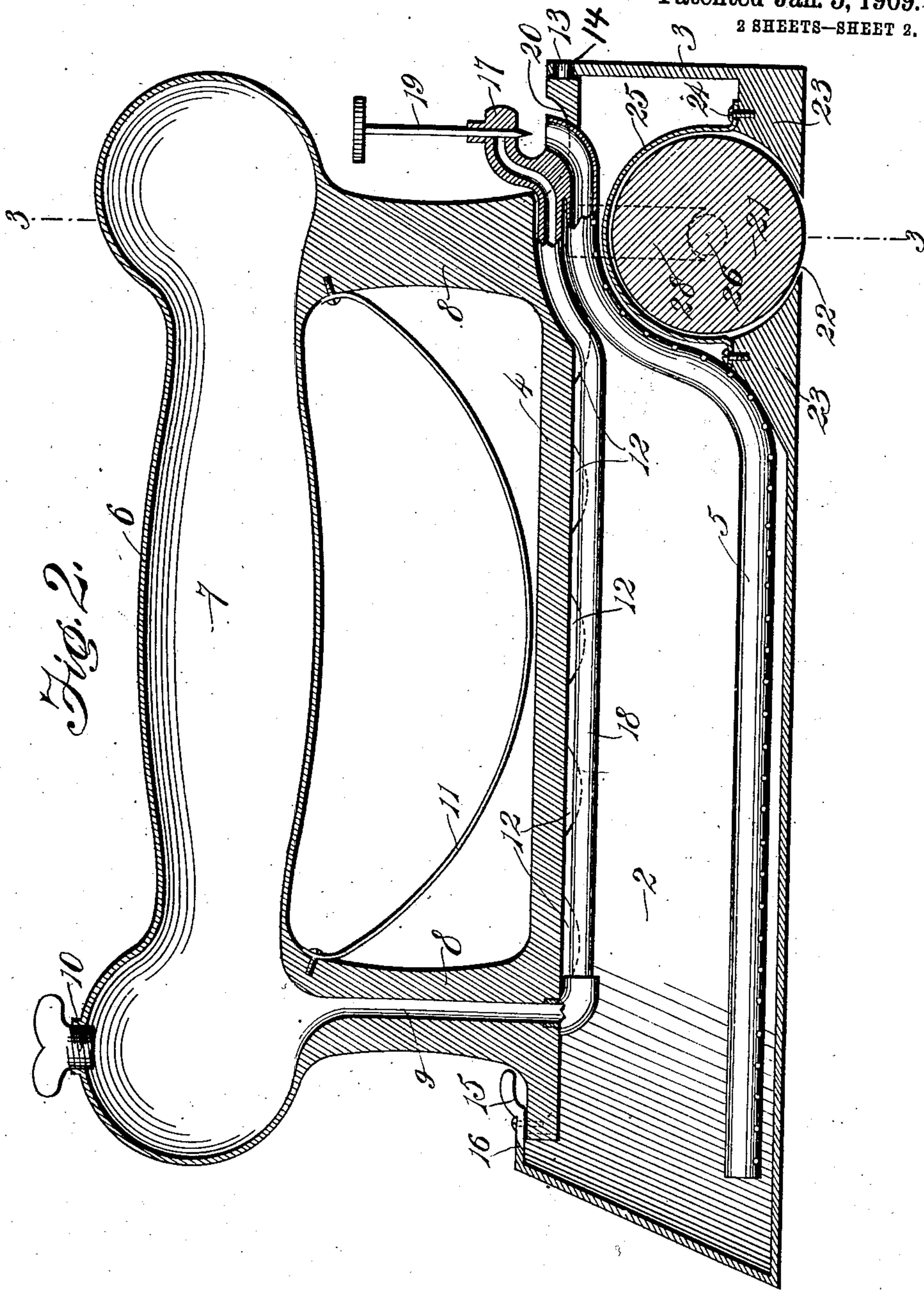
Witnesses
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UNITED STATES PATENT OFFICE.

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SELF-HEATING SAD-IRON.

No. 908,705.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Application filed June 11, 1908. Serial No. 437,990.

To all whom it may concern:

Be it known that I, CLARENCE C. SPRINKLE, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented certain new and useful Improvements in Self-Heating Sad-Irons, of which the following is a specification, reference being had to the accompanying drawings.

10 My invention relates to improvements in self heating sad-irons and consists of the novel features of construction and the combination and arrangement of devices hereinafter fully described and claimed.

15 One object of the invention is to provide a simple and practical iron of this character heated by an oil burner.

Another object of the invention is to provide a self heating sad-iron with a roller 20 which will increase the heating surface and permit the iron to be more easily manipulated.

The above and other objects of the invention are attained in its preferred embodiment illustrated in the accompanying drawings, in which—

25 Figure 1 is a side elevation of my improved self heating iron; Fig. 2 is a longitudinal section; and Fig. 3 is a transverse section.

30 My invention comprises a hollow body 1 of the usual shape having side walls 2 converging to a point at one end and united at their rear ends by a transverse end wall 3. The open top of the body is closed by a removable cover 4 which carries upon its under face a burner 5 and upon its upper face a handle 6, the latter being hollow to provide an oil chamber or reservoir 7 for gasoline or the like. The hollow hand grip 6 is united to the cover plate 4 by front and rear standards 8, the former of which is formed with a passage 9 to provide an outlet for the reservoir 7. This reservoir is provided at 45 one end at its top with a filling opening closed by a removable plug 10. A curved finger shield 11 is arranged between the cover plate and the hand grip and attached to the standards 8 so as to shield the hand from the heat of the iron. The cover plate 50 4 rests upon the upper edges of the side walls 2 of the body 1, which edges are formed with notches 12 to permit of the escape of the heat from the body of the iron. The cover plate 55 is retained in position by forming at its rear

end lugs 13 adapted to enter recesses or seats 14 formed in the end wall 3 of the iron body, which wall is extended slightly above the side walls 2 of the same; and by providing at the front end of the cover plate a pivoted turn button 15 one end of which is formed with a finger piece and the other end of which is adapted to swing under an undercut lip or projection 16 formed at the top of the junction of the side walls 2.

65 The burner 5 comprises a perforated tube, the major portion of which lies close to the bottom of the iron body and is disposed centrally and longitudinally therein, and the rear portion of which is offset and connected to one branch of a valve casing 17 which has another branch connected to a feed or supply pipe 18 arranged immediately beneath the cover plate 4 and extending centrally and longitudinally thereon. The forward 75 end of this pipe 18 is in communication with the lower end of the passage or bore 9 so that the oil in the reservoir 7 will be supplied to a needle valve 19 in the casing 17. A depression or cavity 20 is formed in the 80 rear portion of the cover plate adjacent to the valve casing and serves as an oil cup in which a small amount of oil may be placed and burned to start the burner.

21 denotes a cylindrical roller arranged in 85 the rear portion of the body of the iron and extending transversely therein so that a portion of its periphery projects through an opening 22 in the bottom of the body. This opening 22 is formed between two enlargements 23 extending transversely within the 90 body and having secured to them by screws or removable fastenings 24, a removable guard or shield 25. The latter may be formed of sheet metal, asbestos or the like 95 and serves to protect the roller from direct contact of the flames of the burner tube, the rear offset portion of which latter is disposed close to the guard or shield 25 and is perforated so that the roller 21 will be effectively heated. The roller has at its ends trunnions 26 adapted to enter vertical grooves 100 or channels formed in the inner faces of the side walls 2 and they are retained in the curved or semi-circular bottoms of the 105 grooves 24 by lugs 28 depending from the opposite sides of the cover plate 4 and adapted to enter the grooves 27, as clearly shown in Fig. 3 of the drawings. By making the shield or guard 25 removable and 110

constructing the bearings of the roller as just described, it will be seen that the roller may be readily removed.

It will be seen that when a self heating sad-iron is provided with my improved roller 21 the heating surface of the iron will be materially increased and the roller will further serve to carry the greater part of the weight of the iron and thereby lessen the labor in using it.

From the foregoing description taken in connection with the accompanying drawings, it is thought that the construction, use and advantages of the invention will be readily understood without a more extended explanation.

Having thus described my invention what I claim is:

1. A self heating sad-iron comprising a body having in its bottom a transverse opening and in its side walls grooves, a roller provided at its ends with trunnions to enter said grooves and adapted to have its pe-

riphery project through the opening in the bottom of the body, and a removable cover plate for the body having lugs to retain the trunnions of the roller in said grooves.

2. A self heating sad-iron comprising a body having in its bottom a transverse opening and in its side walls grooves, a roller provided at its ends with trunnions to enter said grooves and adapted to have its periphery project through the opening in the bottom of the body, a cover plate for the body formed with depending lugs to enter said grooves and retain the trunnions of the roller in the latter, means for fastening the cover plate to the body, a shield arranged within the body over the roller, and a burner within the body.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.
CLARENCE C. SPRINKLE.

Witnesses:

M. E. BATES,

LEWIS F. DE WOLF.