

No. 644,132.

Patented Feb. 27, 1900.

J. FELDMAYER.
SMOOTHING IRON.

(Application filed May 29, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1

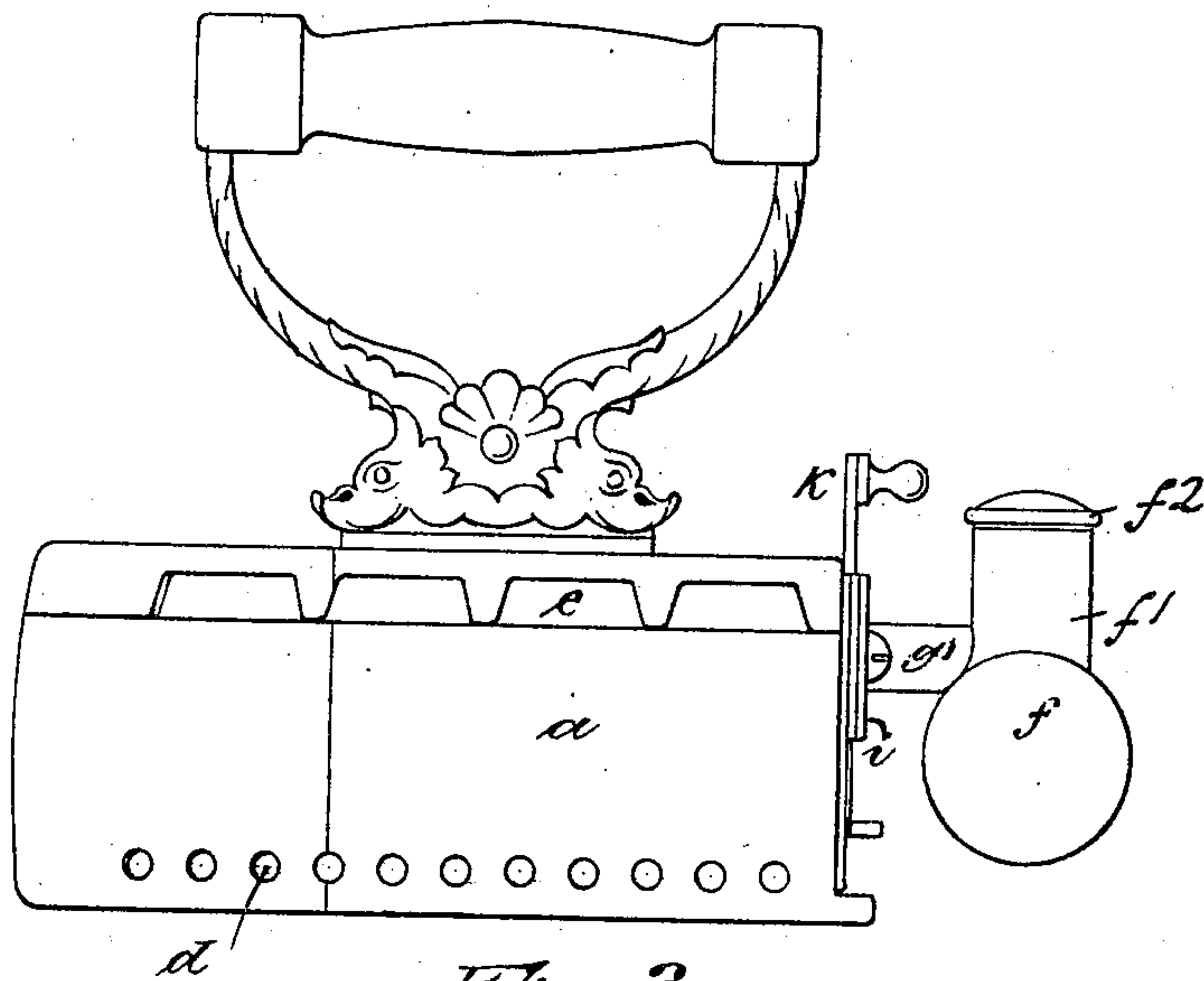
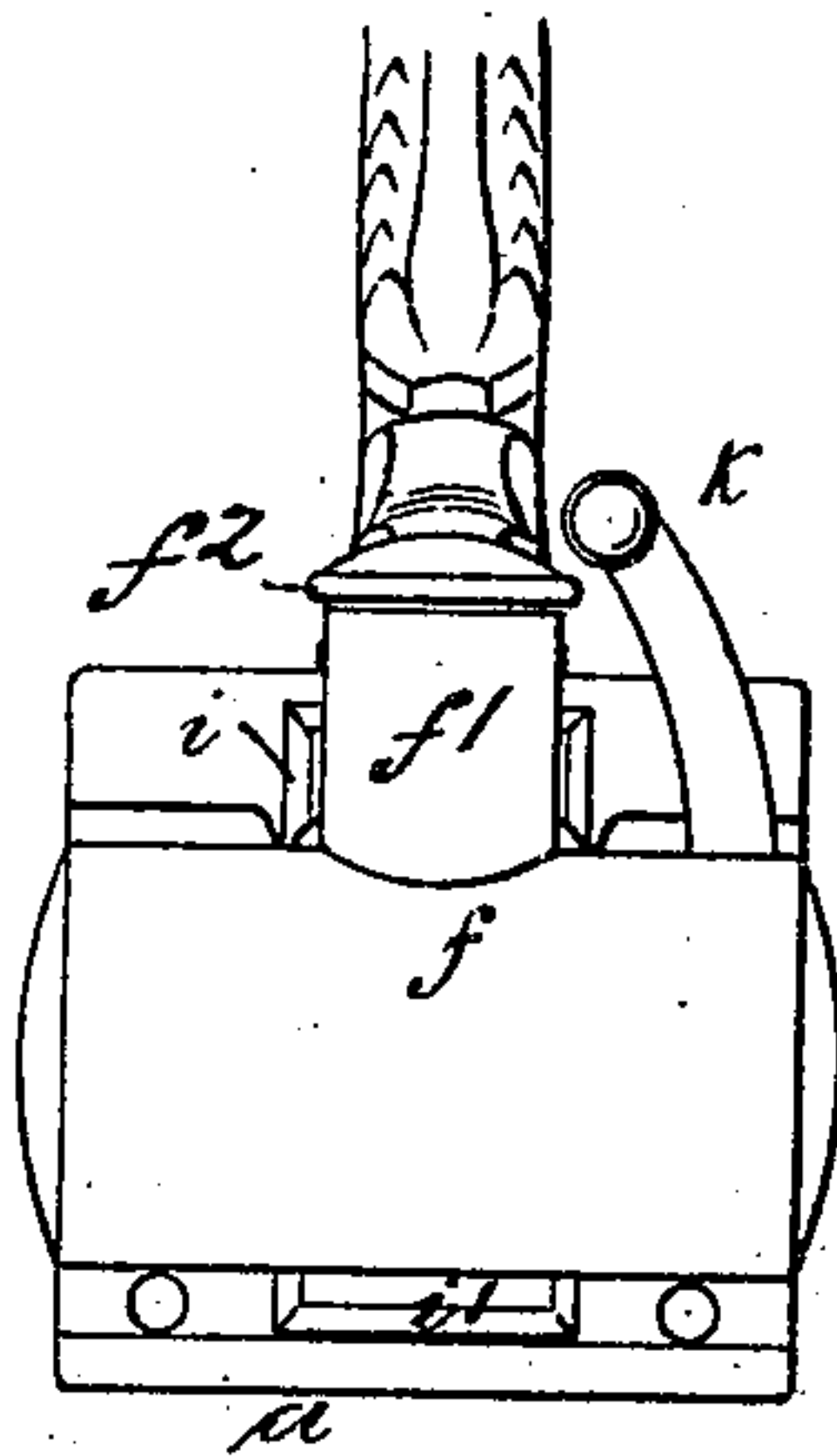


Fig. 3



Witnesses:

H. Jügel
Emil Hugel

Inventor:

Josep Feldmeyer

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Fig. 2

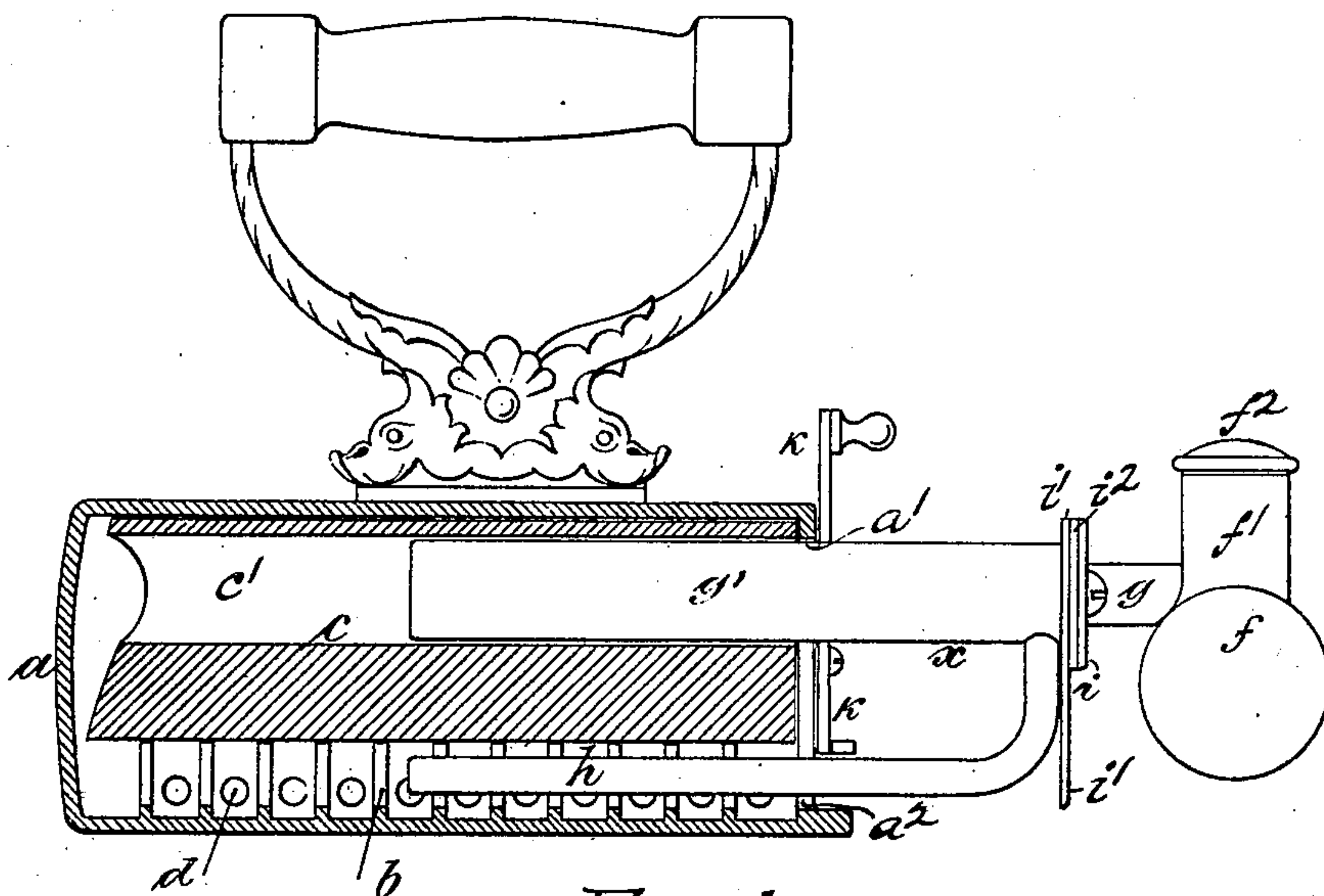
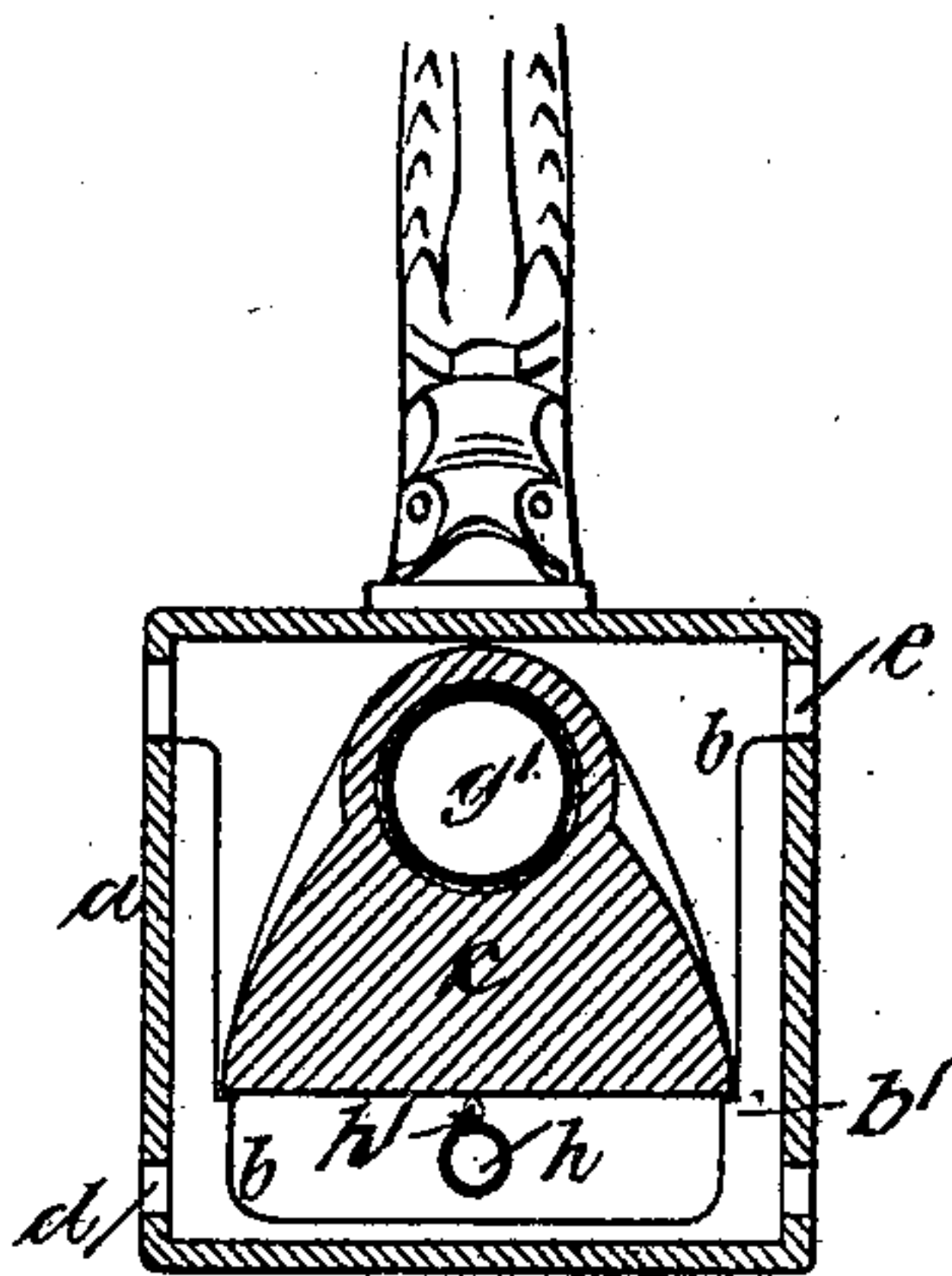


Fig. 4



Witnesses:

H. Engel
Carl Engel

Inventor:
Joseph Feldmeyer

UNITED STATES PATENT OFFICE.

JOSEF FELDMEYER, OF WURZBURG, GERMANY.

SMOOTHING-IRON.

SPECIFICATION forming part of Letters Patent No. 644,132, dated February 27, 1900.

Application filed May 29, 1899. Serial No. 718,775. (No model.)

To all whom it may concern:

Be it known that I, JOSEF FELDMEYER, a subject of the German Emperor, and a resident of Wurzburg, Germany, have invented an Improvement in Smoothing-Irons, of which the following is a specification.

This invention relates to a smoothing-iron having self-contained means for heating it.

In the drawings, Figure 1 is a side elevation, and Fig. 3 a rear end elevation, of the improved smoothing-iron. Fig. 2 is a longitudinal section showing the interior parts of the smoothing-iron with the heater partly withdrawn. Fig. 4 is a cross-sectional view.

The smoothing-iron comprises a hollow body *a*, having extending across its floor and up each side internal ribs *b*, shouldered at *b'* to support the base of the heating-block *c*. Between the ribs *b* near the bottom of each side are holes *d* and in the upper part of the walls are holes *e* for the entrance of air and outlet of products of combustion, respectively.

The heating-block *c* is of metal and has a passage-way *c'* from end to end.

In the rear end of body *a* is a hole *a'*, alined with passage-way *c'*, and a hole *a''*, alined with the space beneath the block *c*. The shape of these holes is not material, provided they are large enough to admit the heater hereinafter described. On the rear end of the body *a* is also pivoted a latch *h* for the purpose of retaining the heater when the latter is pushed into the body *a* by said latch falling behind the heater and preventing its withdrawal until the latch is lifted by hand.

The heater consists of a vessel *f* to contain spirit, with entrance-neck *f'* and plug *f''* for closing it. A branch pipe *g* from vessel *f* leads to a flange *i*, fastened to a flange *i'*, an insulating or non-heat-conductive ring *i''* being inserted between them. On the flange *i'* is a vessel *g'*, closed at the end remote from flange *i'* and of a size to enter the passage-way *c'*. From the vessel *g'* there branches a pipe *h*, returned parallel to vessel *g'* and having in its upper side holes *h'*. A wick (not seen in the drawings) leads from vessel

g' into pipe *h*. The action of these parts is as follows: The heater being partly withdrawn, as shown in Fig. 2, the projecting part of vessel *g'* is heated by applying any spirit-lamp or the like thereto. Spirit in vessel *g'* is thus evaporated and may be ignited as the vapors issue from the holes *h'* in pipe *h*. The heater is then pushed into the body of the iron. The flames from pipe *h* heat the block *c*, which in turn radiates heat, and by means of the ribs *b* heat is conducted to the body *a*. Heat from the block *c* also passes to the vessel *g'* and evaporates the spirit or the like therein for the supply of vapor to the pipe *h*.

During temporary intervals in the use of the smoothing-iron the heater may be nearly withdrawn, so that sufficient heat passes to vessel *g'* merely to give enough evaporation to keep the pipe-jets alight. It will be obvious also that regulation of evaporation and consequent combustion and heating effect may be produced by drawing the heater more or less from the body of the iron.

I claim as my invention—

1. In a smoothing-iron the combination of a hollow body *a*, a block *c* supported in body *a* at an interval above the floor thereof, and a heater comprising a reservoir *f*, an evaporator *g'* in communication with said reservoir and a burner-pipe *h*, said evaporator being within the block *c* and the burner-pipe beneath the block *c* for the purpose set forth.

2. In a smoothing-iron the combination of a hollow body *a* a block *c* having a passage-way *c'* supported in body *a* at an interval above the floor thereof, and a removable heater comprising a reservoir *f* an evaporator *g'* and a burner-pipe *h*, the evaporator being adapted to enter passage *c'* and the burner-pipe to enter the space beneath the block *c* for the purpose set forth.

In witness whereof I have signed this specification in the presence of two witnesses.

JOSEF FELDMEYER.

Witnesses:

M. GUGEL,
EMIL HENZEL.