

No. 843,331.

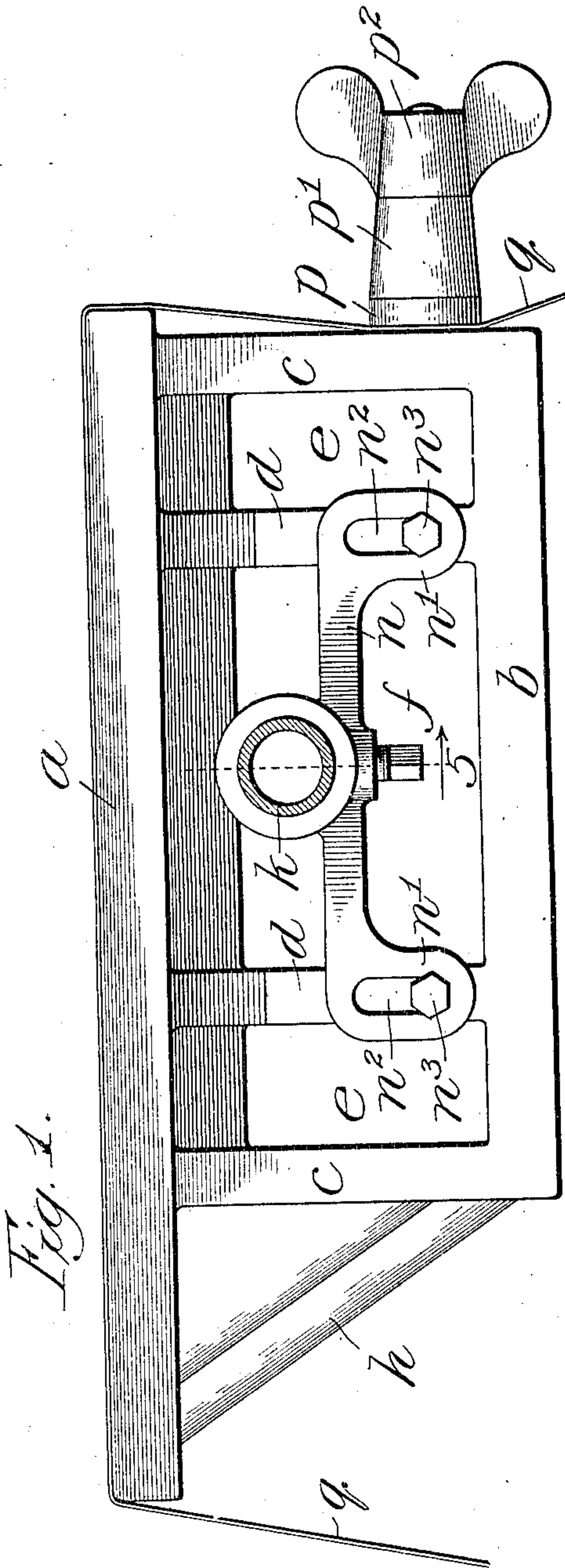
PATENTED FEB. 5, 1907.

J. ECKER.

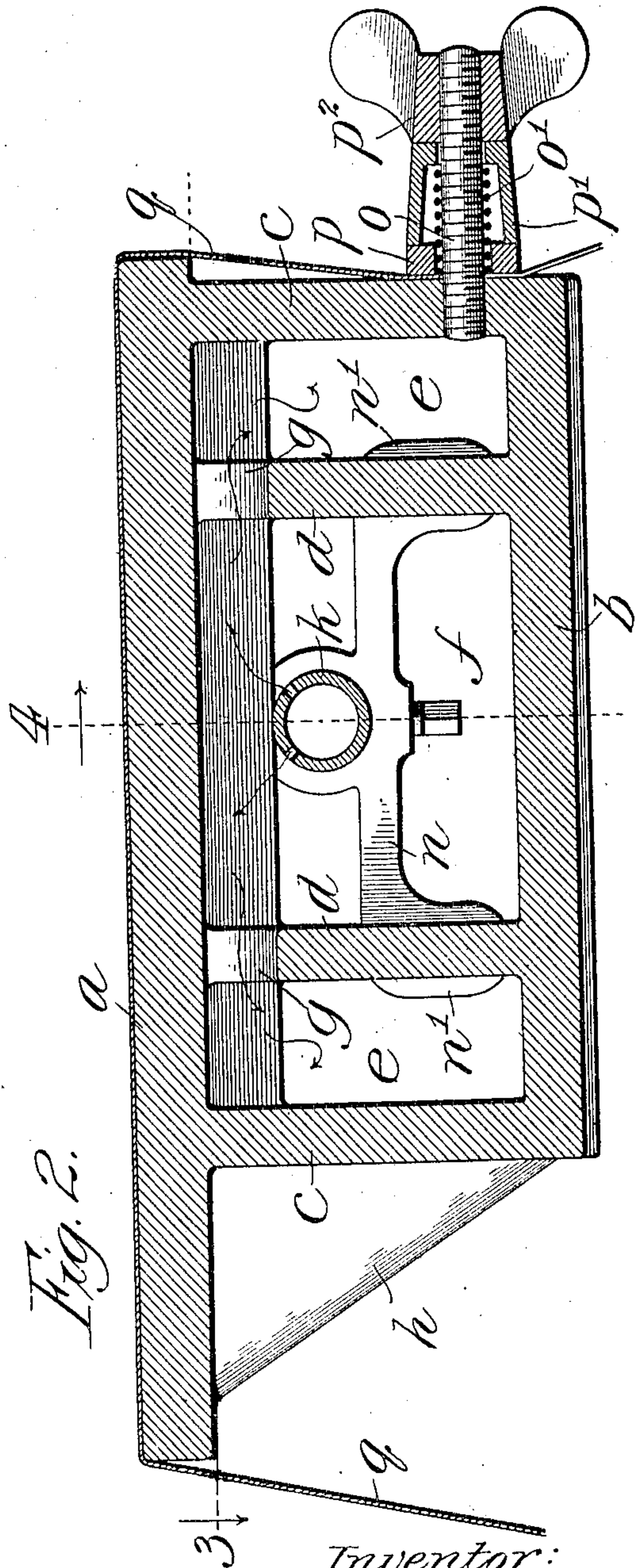
CLOTH PRESSING MACHINE BUCK.

APPLICATION FILED JAN. 25, 1905.

2 SHEETS—SHEET 1.



Witnesses:
Eas. Paylord.
John Enders.



Inventor:
Jacob Ecker.
By Dymforth, Dymforth & Co.,
Att'ys in

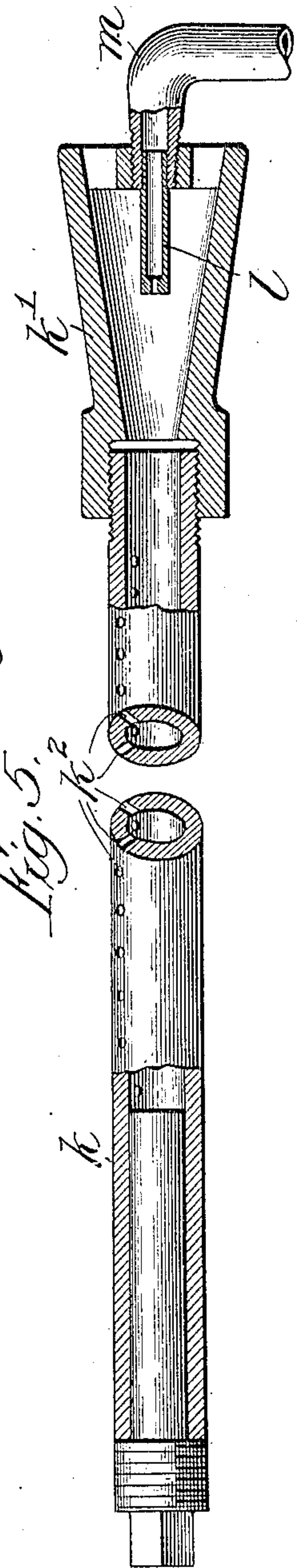
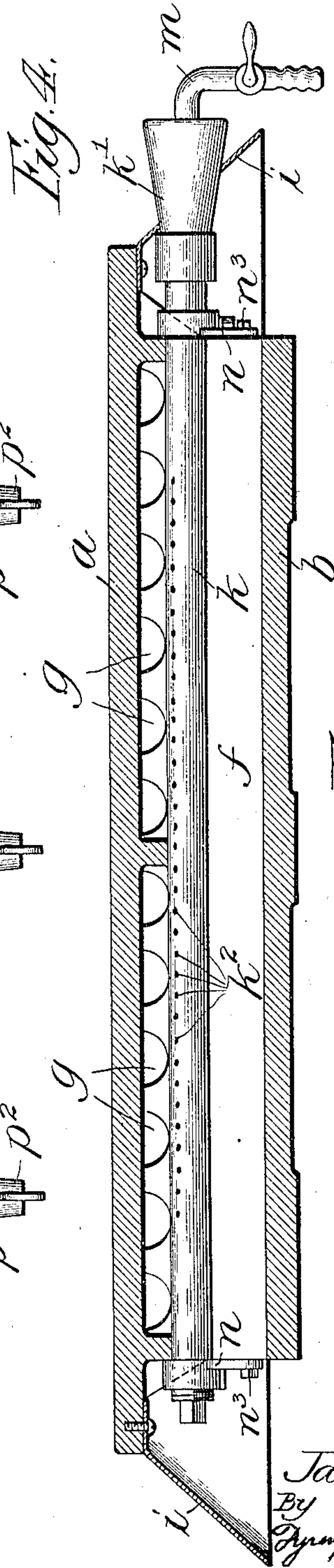
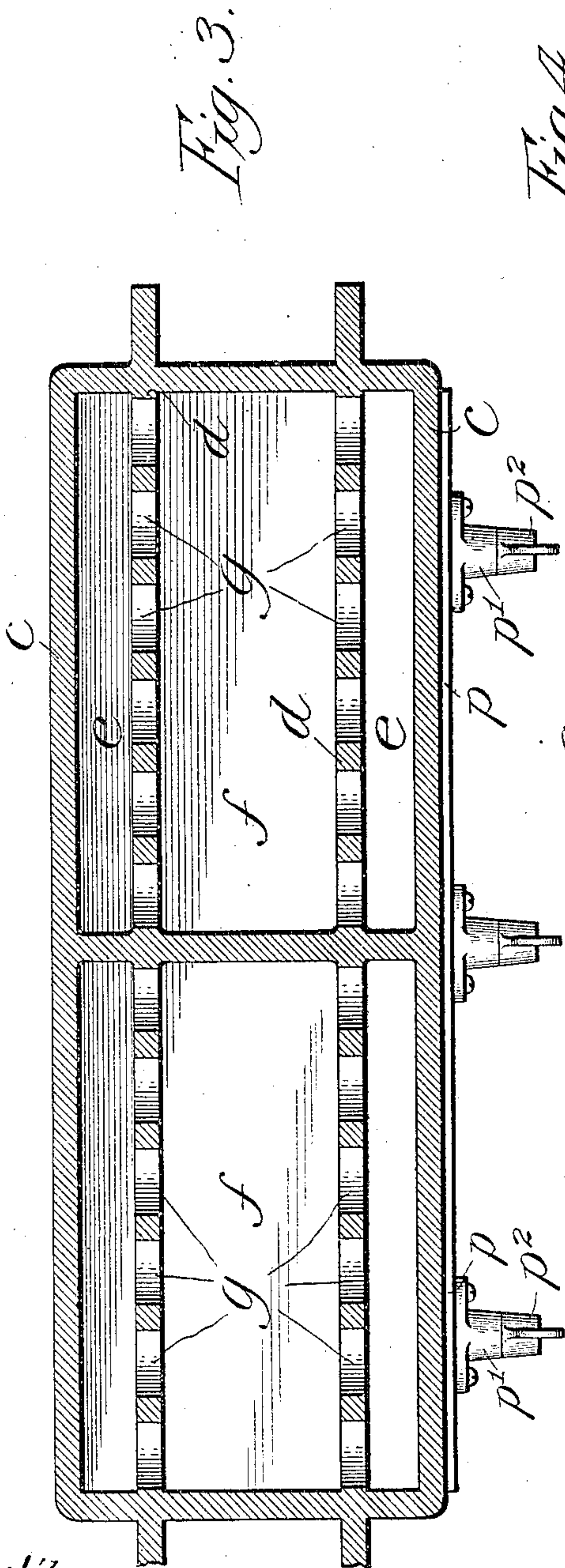
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CLOTH PRESSING MACHINE BUCK.

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2 SHEETS—SHEET 2.



Witnesses:
E. S. Mayford.
John Enders.

Inventor:
Jacob Ecker,
By
Dyersforth, Dyersforth & Sec.
Att'ys.

UNITED STATES PATENT OFFICE.

JACOB ECKER, OF CHICAGO, ILLINOIS.

CLOTH-PRESSING-MACHINE BUCK.

No. 843,331.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed January 25, 1905. Serial No. 242,658.

To all whom it may concern:

Be it known that I, JACOB ECKER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Cloth-Pressing-Machine Bucks, of which the following is a specification.

My invention relates to an improved construction of the "buck" or presser-bed provided to cooperate with the sad-iron, more
10 particularly on a cloth-pressing machine, such as that forming the subject of Letters Patent No. 818,753, granted to me April 24, 1906.

15 When in pressing-machines of the class referred to or in hand-work the buck is unheated, the under side of the preparatorily dampened work is not dried, like the upper surface thereof, by heat, but is still moist when the
20 pressing operation is completed and tends to swell, and thus impair the effect of the pressing, besides becoming glossy in drying and requiring the gloss to be removed by steaming or otherwise, involving labor and waste of
25 time.

My object is to provide a buck of improved construction generally, as also in detail, to adapt it to be heated with gas or other heating medium, such as electricity, and used in
30 the heated condition to the best advantage.

In the accompanying drawings, Figure 1 shows my improved buck by a view in end elevation with its gas-burner in section. Fig. 2 is a vertical cross-section of the same; Fig.
35 3, a section taken at the line 3 on Fig. 2, viewed in the direction of the arrow and reduced; Fig. 4, a section taken at the line 4 on Fig. 2 viewed in the direction of the arrow and reduced; and Fig. 5, a broken view,
40 partly sectional, of the gas-burner, the gas-burner being partly in section on the line 5 of Fig. 1.

The buck, as shown, is composed of a casting of oblong general rectangular shape
45 formed with a top *a*, a preferably narrow base *b*, outer side walls *c c*, and inner side walls *d d*, forming therewith the side chambers *e e* and also forming the central chamber *f*, which has open communication with the side chambers
50 through longitudinal series of openings *g* in the upper parts of the walls *d d*. The top *a* is shown to project beyond one side wall *c* and is reinforced by diagonal braces *h*. The chambers *e f* extend throughout the length of
55 the device and are open at both ends, and one end or each end, as shown in Fig. 4, if

desired, is provided with a deflector *i*, for a purpose hereinafter explained.

The burner-tube *k* is closed at one end and provided with a conical mixing-chamber *k'* 60 on its opposite end and with longitudinal series of gas-jet openings *k²*, and an injector-pipe *l* is supported in the open enlarged end of the chamber *k'* and connects at said end
65 with a valved pipe *m* adapted to be connected, as by rubber hose, (not shown,) with a gas-supply pipe. The tube *k* is supported near each end in a bracket *n*, the depending end
70 arms *n'* of which contain vertically-elongated slots *n²*, through which the bracket is adjustably fastened to the ends of the walls *d* by
75 screw-bolts *n³* inserted into the latter and serving to secure the bracket at any height to which it is adjusted in accordance with the
80 gas-pressure employed. Thus supported the burner-tube extends lengthwise centrally through the chamber *f*, and when ignited the hot products of combustion are distributed from the central chamber through the open-
85 ings *g* into the side chambers and the distribution of heat uniformly heats the top *a*.

The spent products of combustion discharge at the open ends of the chambers, thus beyond any work that is imposed on the
85 top *a* to be pressed, and where a deflector *i* is provided it further shields the work against
90 access to it of the hot products of combustion and against the burning or scorching tendency thereof.

On one side of the buck is provided a row
90 of stationary screws *o*, projecting horizontally from it through a clamping-bar *p*, each screw being surmounted by a spiral spring *o'*, confined under compression in a thimble *p'* by a
95 wing-nut *p²* on the outer end of the screw. Thus clamps are afforded for the free end of a dampening-cloth *q* drawn taut over the top *a*
100 to be next to the under surface of the dampened work to be pressed, and the dampening-cloth is held by the clamping-bar *p*.

The springs in the clamps tend to free readily the bar *p* by forcing outward the thimbles
105 *p'* when the clamping-nuts are loosened.

What I claim as new, and desire to secure by Letters Patent, is—

1. A cloth-pressing buck comprising, in combination, a hollow metal body having imperforate outer walls and inner walls forming in said body a central chamber and, with
110 said outer walls, side chambers, the chambers being open at both ends and said inner walls containing openings through which the cham-

bers intercommunicate, a gas-burner in said central chamber, and shields on said body extending over and covering the open ends of the chambers and operating to deflect downwardly the hot gas escaping therefrom.

2. A cloth-pressing buck comprising, in combination, a hollow metal body having a flat upper pressing-surface, imperforate outer walls, and inner walls forming in said body a central chamber and, with said outer walls, side chambers, and a gas-burner supported in said central chamber, said inner walls containing openings through which the chambers intercommunicate and the chambers being open at both ends of said body to discharge the hot products of combustion from

the burner beyond the work imposed on said buck.

3. A cloth-pressing buck comprising, in combination, a cast-metal body formed with a top and a bottom and outer and inner walls between them forming open-ended central and side chambers, said inner walls having openings, a bracket adjustably supported on said body, and a gas-burner supported on said bracket to extend in said central chamber.

JACOB ECKER.

In presence of—

J. H. LANDES,
L. HEISLAR.