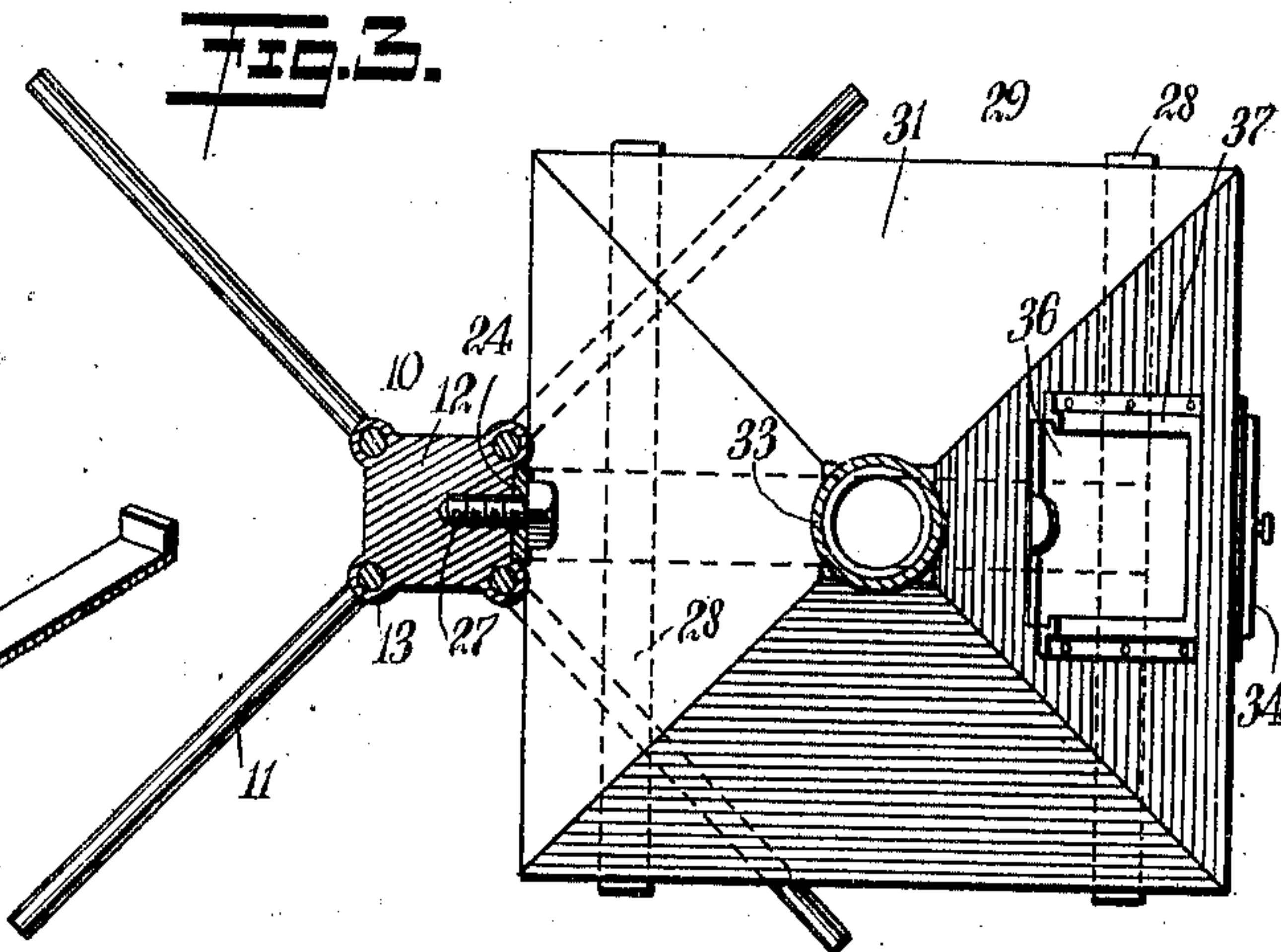
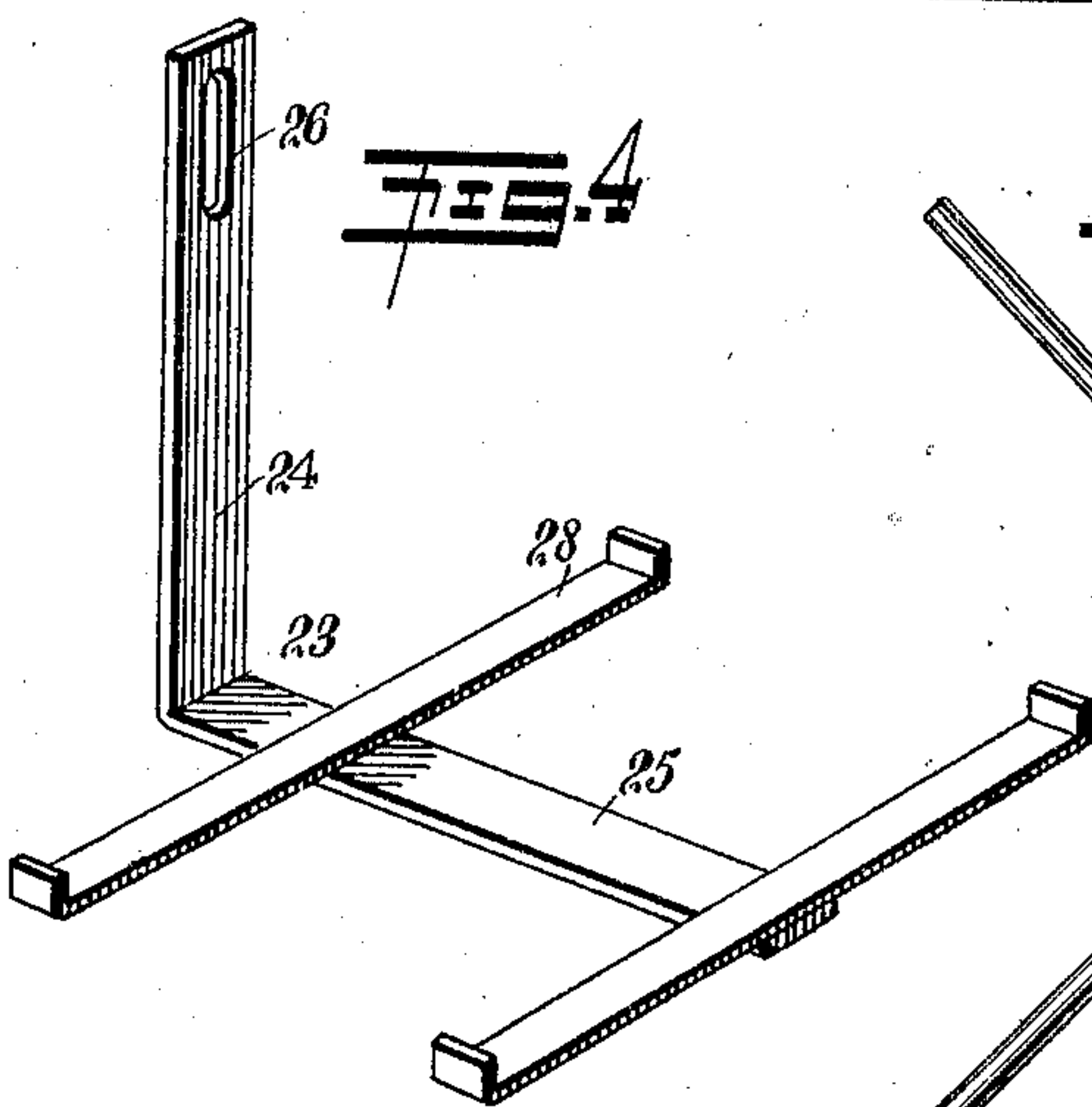
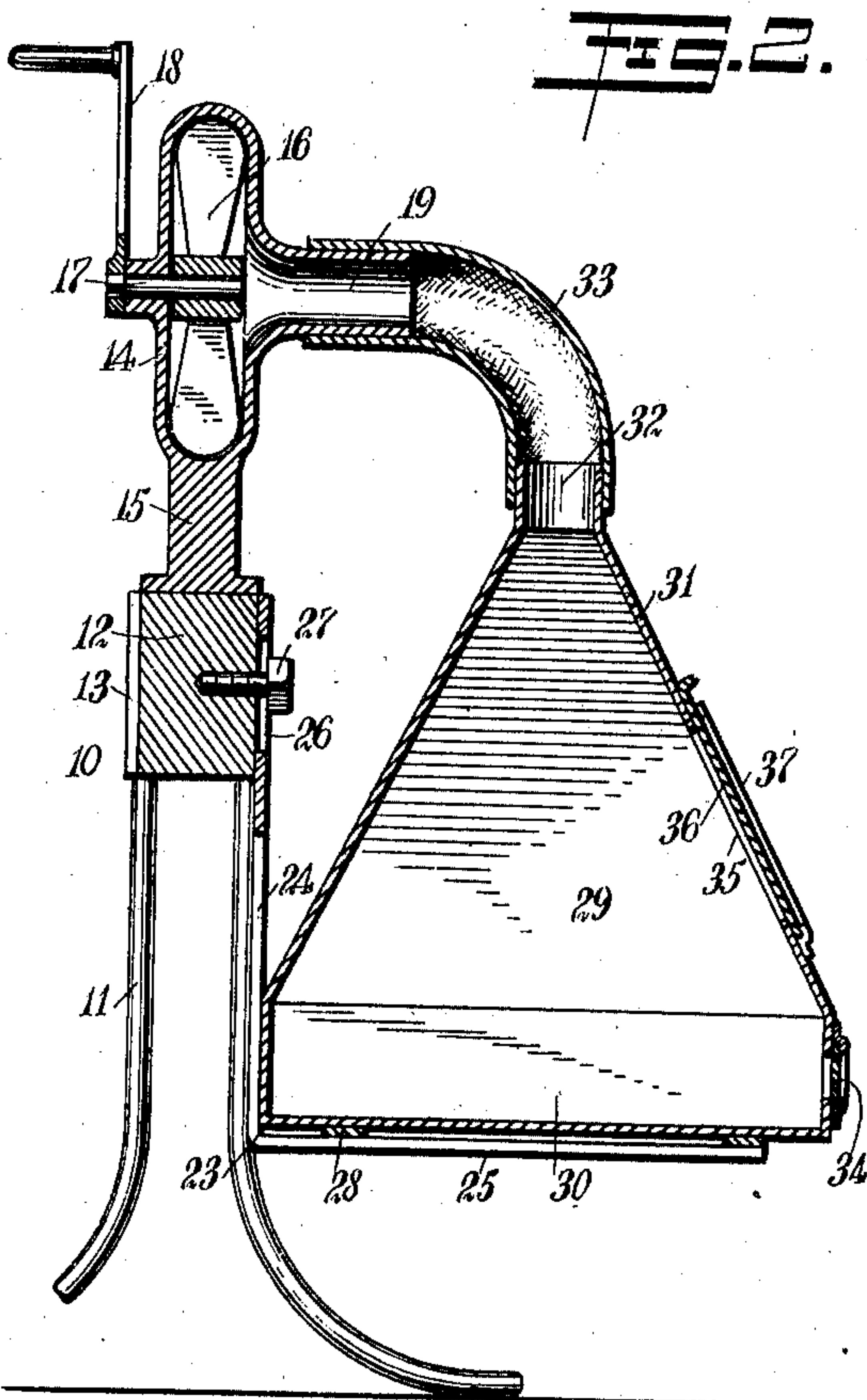
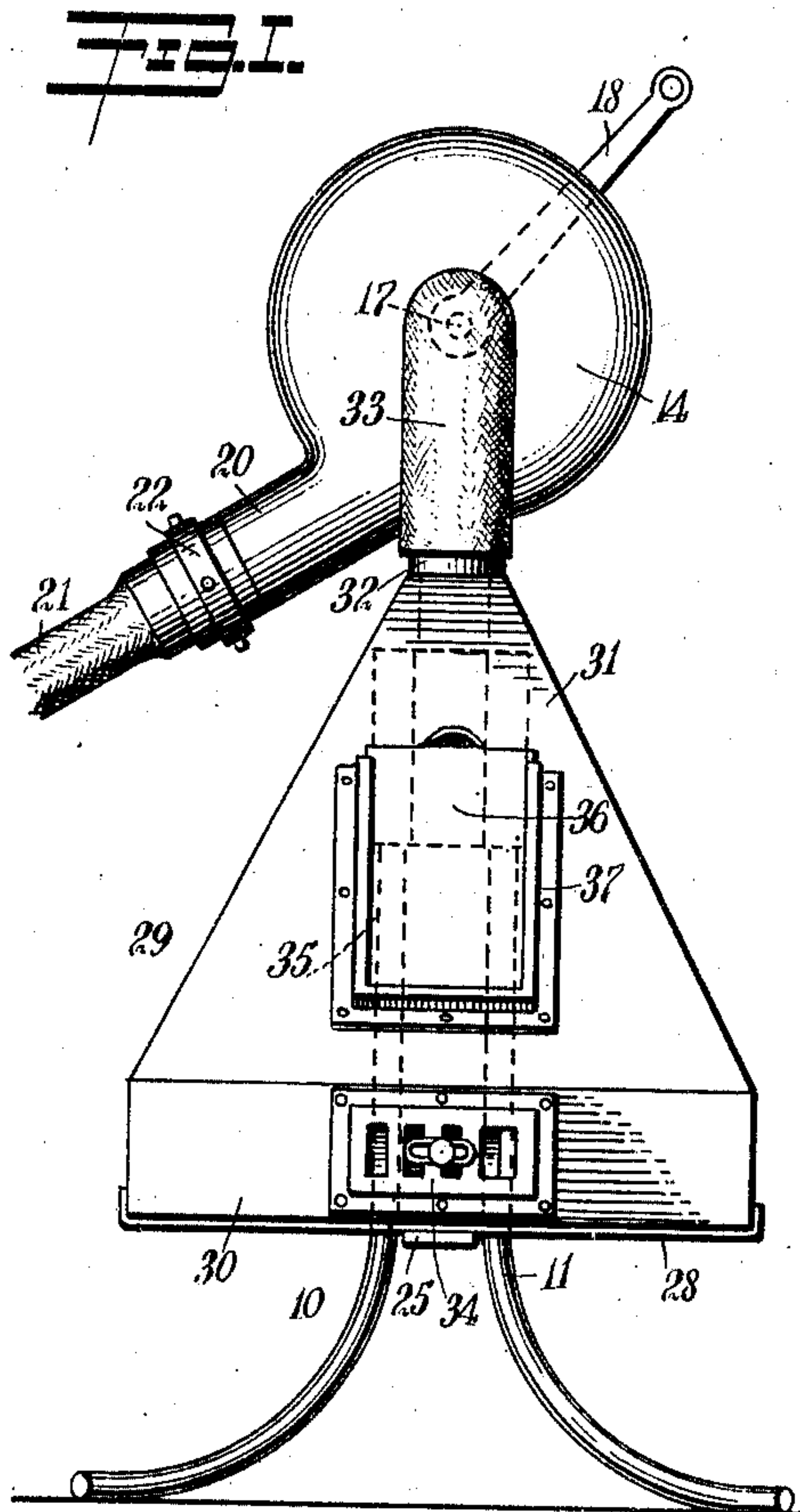


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HOSE DRIER.

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976,656.

Patented Nov. 22, 1910.



WITNESSES:
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FRANK A. HOYT, OF GORDON, NEBRASKA.

HOSE-DRIER.

976,656.

Specification of Letters Patent.

Patented Nov. 22, 1910.

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To all whom it may concern:

Be it known that I, FRANK A. HOYT, a citizen of the United States, and a resident of Gordon, in the county of Sheridan and State of Nebraska, have invented a new and Improved Hose-Drier, of which the following is a full, clear, and exact description.

This invention relates to hose driers for freeing fire hose and the like from moisture, and has reference more particularly to a device of this class comprising means for heating air, means for drawing the heated air from the first means, and means for connecting a hose with the air-drawing means, so that the heated air can be forced through the hose to expel the water remaining in it.

The object of the invention is to provide a simple, strong and durable hose drier, which is compact in form, with which different kinds of fuels can be employed for heating the air, which requires little force to operate it, and by means of which comparatively long sections of hose can be rapidly dried.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a front elevation of an embodiment of my invention showing the end of a section of hose coupled thereto; Fig. 2 is a longitudinal section of the drier; Fig. 3 is a transverse section of the drier; and Fig. 4 is a perspective view of a carrier used for mounting the air-heating device in position.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the device is particularly useful in connection with fire fighting apparatus, for the purpose of drying the hose after it has been used, it can also be advantageously employed under other circumstances, in which it is necessary to expel water remaining in flexible conduits or similar devices.

I prefer to employ an ordinary sheet metal stove, in which wood, coal, or other fuel can be burned, and into which, if so desired, a gas or other burner can be introduced for the same purpose. The blower may be of any convenient form, and while I have shown it for example, provided with a hand-

crank to permit its manual operation, means can be provided if so desired, for mechanically driving the blower.

Certain of the details of construction form no part of the invention, and can be varied in accordance with individual preference and special conditions, without departing from the underlying spirit of the invention.

Referring more particularly to the drawings, I provide a stand 10 having a plurality, preferably four, legs or supports 11, consisting of rods having the lower ends outwardly bent to form feet, which constitute a stable and firm base for the drier. The support has a crown or top piece 12 provided with sleeves 13, in which the upper ends of the legs 11 are mounted, the sleeves being preferably integral with the crown and at the corners thereof. The blower casing 14, having a base 15, is mounted by means of the latter upon the crown of the stand. The blower casing has therein a blower 16 of any convenient type, provided with a projecting shaft 17 upon which the operating crank 18 is secured. The casing has a central, laterally extended, tubular inlet 19 and a similarly formed outlet 20 extending laterally from the casing, at one side. The arrangement is such that when the blower is operated, air is drawn in through the inlet 19, and is expelled through the outlet 20. The latter is constructed so that hose 21 can be removably attached thereto by means of the usual coupling 22 employed with hose of this kind.

I employ a stove carrier 23 having a normally vertical part 24, and a normally horizontal part 25. The part 24 has near its upper end a slot 26 adapted to receive a set screw 27 or the like, so that it can be removably secured to the crown 12. Cross supports 28 having the ends upwardly disposed are mounted upon the part 25 and receive the stove 29.

The stove may be of any suitable form and the casing thereof is preferably fashioned from sheet metal. In the type illustrated for example, herewith, it has a rectangular base portion 30 and a pyramidal upper part 31 tapering to an air outlet or flue 32 at the top. The latter is tubular and is connected by means of a conduit 33 consisting of any suitable, flexible tube, with the inlet 19 of the blower casing. The stove has, in the base portion 30, a damper 34 of any suitable form, and in the upper part has an

opening 35 controlled by a slide 36 mounted in a flanged guide 37.

When the device is to be used, any suitable flue is introduced into the stove and is ignited. The damper is arranged to facilitate the combustion of the fuel. The air to be used for drying the hose enters through the opening 35, and the closure of the latter is adjusted so that the desired quantity of air can pass through the stove. The hose is coupled to the outlet 20 of the blower casing, and the crank 18 is turned. The blower then draws the heated air from the stove into the inlet 19, and forces it by way of the outlet 20, through the hose, which is rapidly dried by the heated air passing through it. The parts, it will be understood, can be disconnected for storage or shipment, and the device can be easily carried from place to place as the exigencies of its use demand.

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

1. A device of the class described, comprising a heater for heating air, and having a tapered casing, a blower for drawing heated air from the apex of said casing, and a coupling for connecting a hose with said blower, whereby the heated air can be forced through the hose.

2. A device of the class described, comprising a stand, a blower casing mounted thereon and having an inlet and an outlet, a blower within said casing, a heater carried by said stand, means for connecting said heater and said inlet of said blower casing, and a coupling for securing a hose directly to said outlet of said blower casing.

3. A device of the class described, comprising a stand, a blower casing mounted thereon, a blower within said casing, said casing having an inlet and an outlet, a carrier connected with said stand, a tapered

stove mounted upon said carrier and having an outlet at the apex, a tube connecting said outlet of said stove and said inlet of said blower casing, and a coupling for securing a hose to said outlet of said blower casing.

4. A device of the class described, comprising a stand having a crown provided with sleeves, legs positioned in said sleeves and having outwardly disposed feet, a blower mounted upon said stand, a heater carried by said stand, means connecting said heater and said blower, and means for coupling a hose to said blower, to permit heated air to be forced into the hose by said blower.

5. A device of the class described, comprising a stand, a carrier connected with said stand, and having a substantially horizontal part, cross supports carried by said part and having upwardly disposed ends, a stove mounted upon said supports, between said ends, a blower carried by said stand, and a tube connecting said stove and said blower, said blower having means for coupling a hose thereto.

6. A device of the class described, comprising a stand, a blower casing mounted thereon and having an inlet and an outlet, a blower within said casing, said outlet having means for coupling a hose thereto, a stove carrier secured to said stand, a stove positioned upon said carrier and having an adjustable air inlet, said stove having an air outlet, and a tube connecting said outlet of said stove and said inlet of said blower casing.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK A. HOYT.

Witnesses:

WELLINGTON THOMPSON,
JOEL M. BARTO.