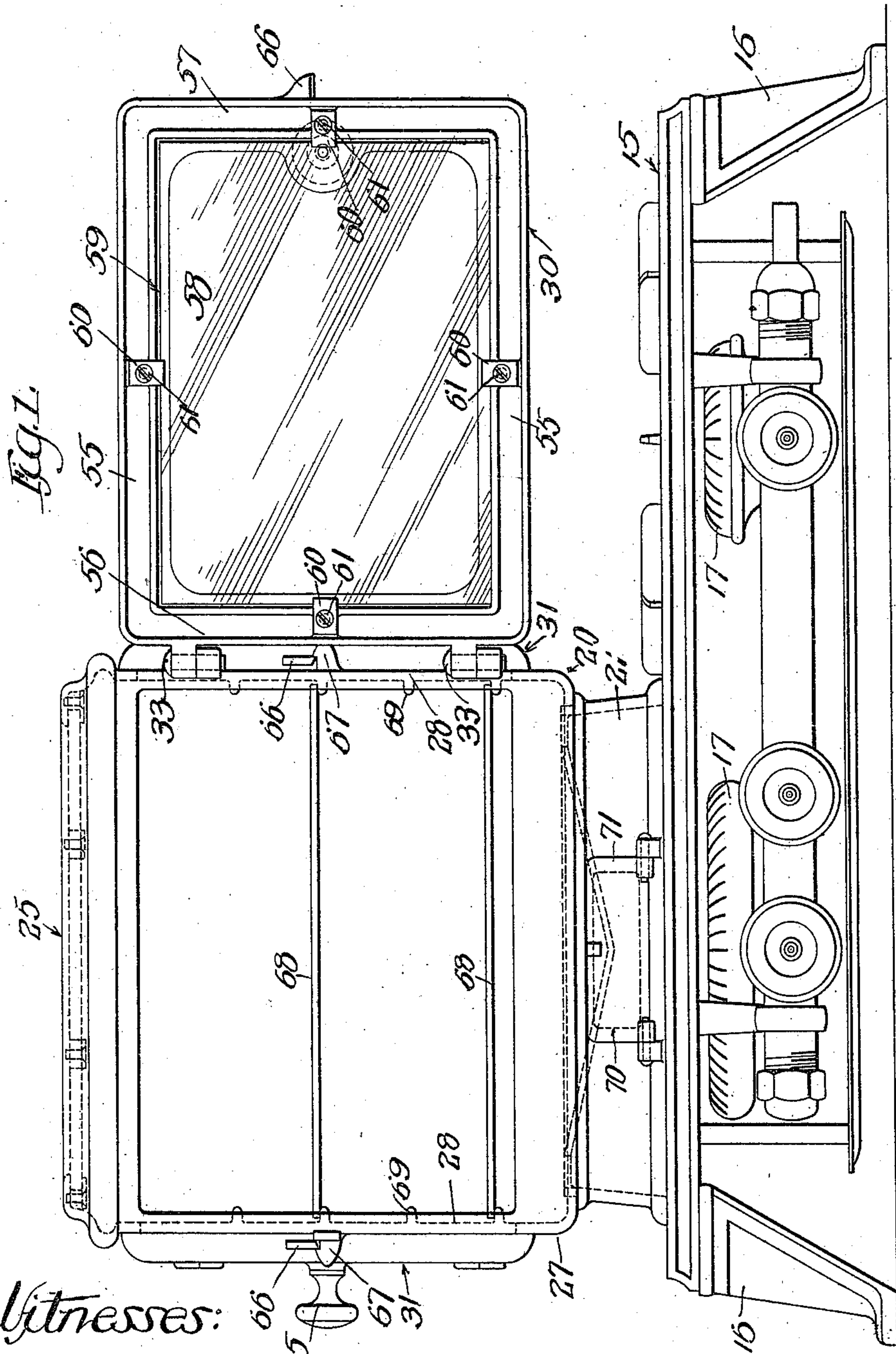


F. L. GOODRICH.
OVEN FOR GAS STOVES.
APPLICATION FILED MAY 22, 1908.

989,842.

Patented Apr. 18, 1911.

4 SHEETS—SHEET 1.



Witnesses:
J. N. Daggett.
J. H. Alfede.

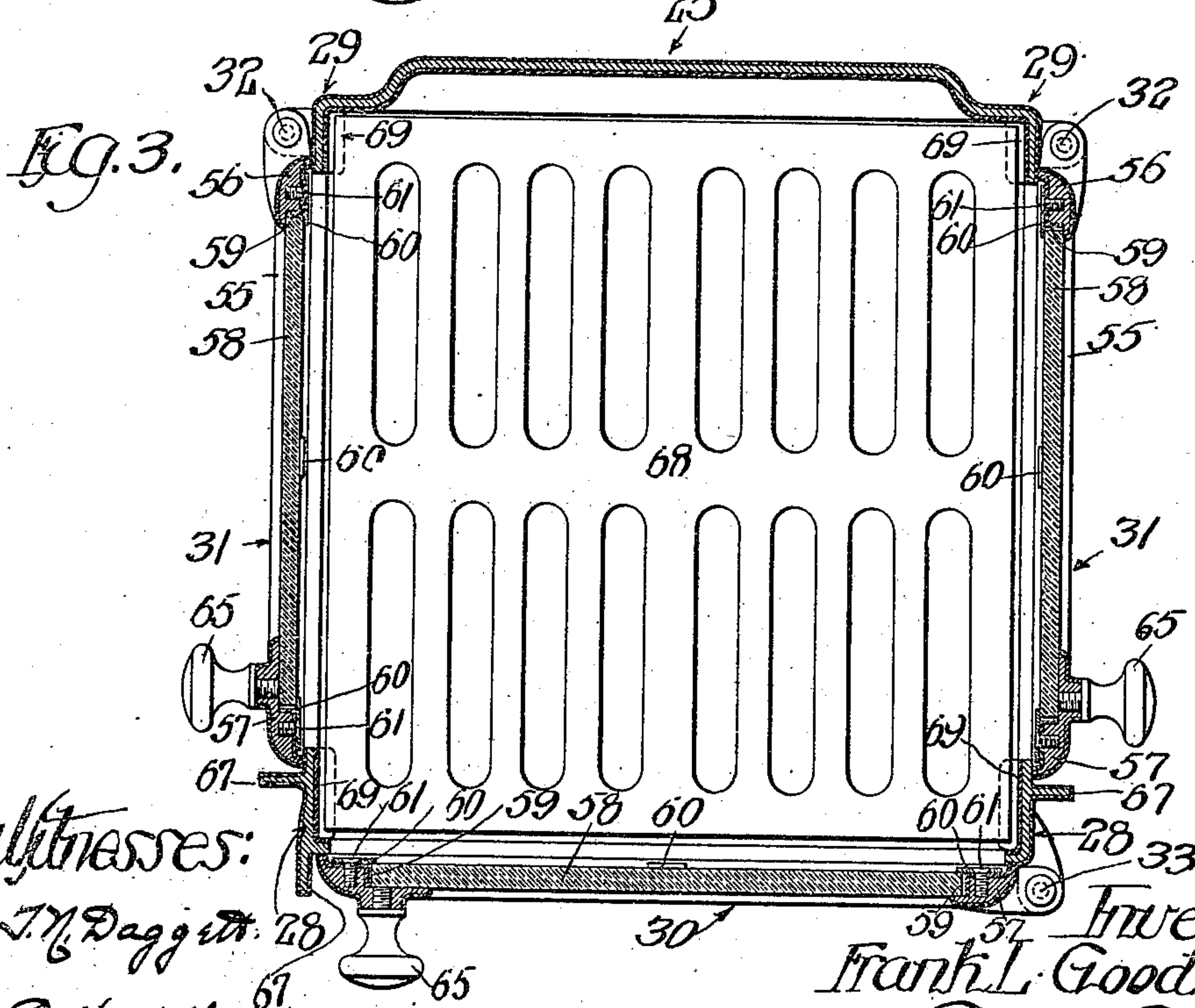
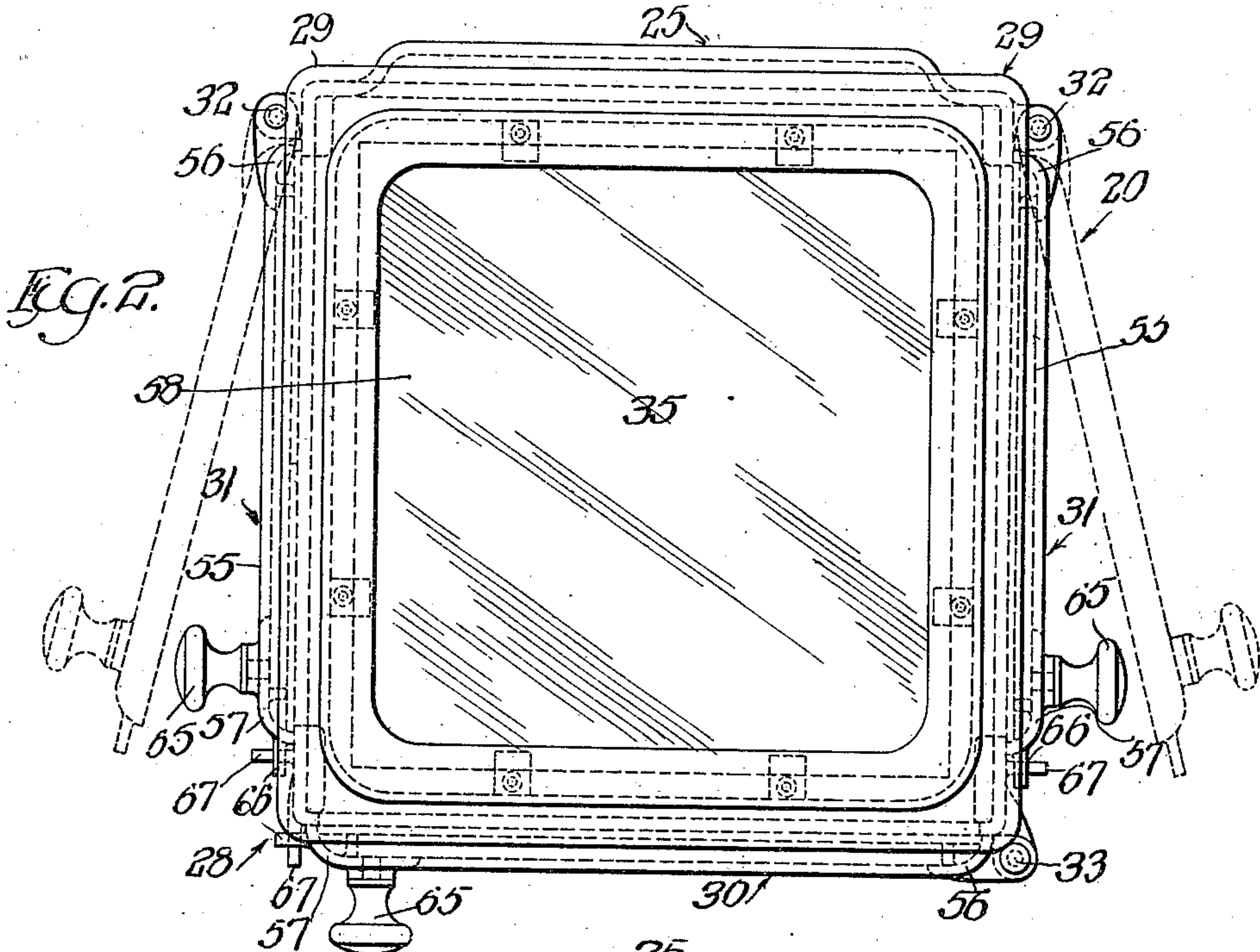
Inventor.
Frank L. Goodrich
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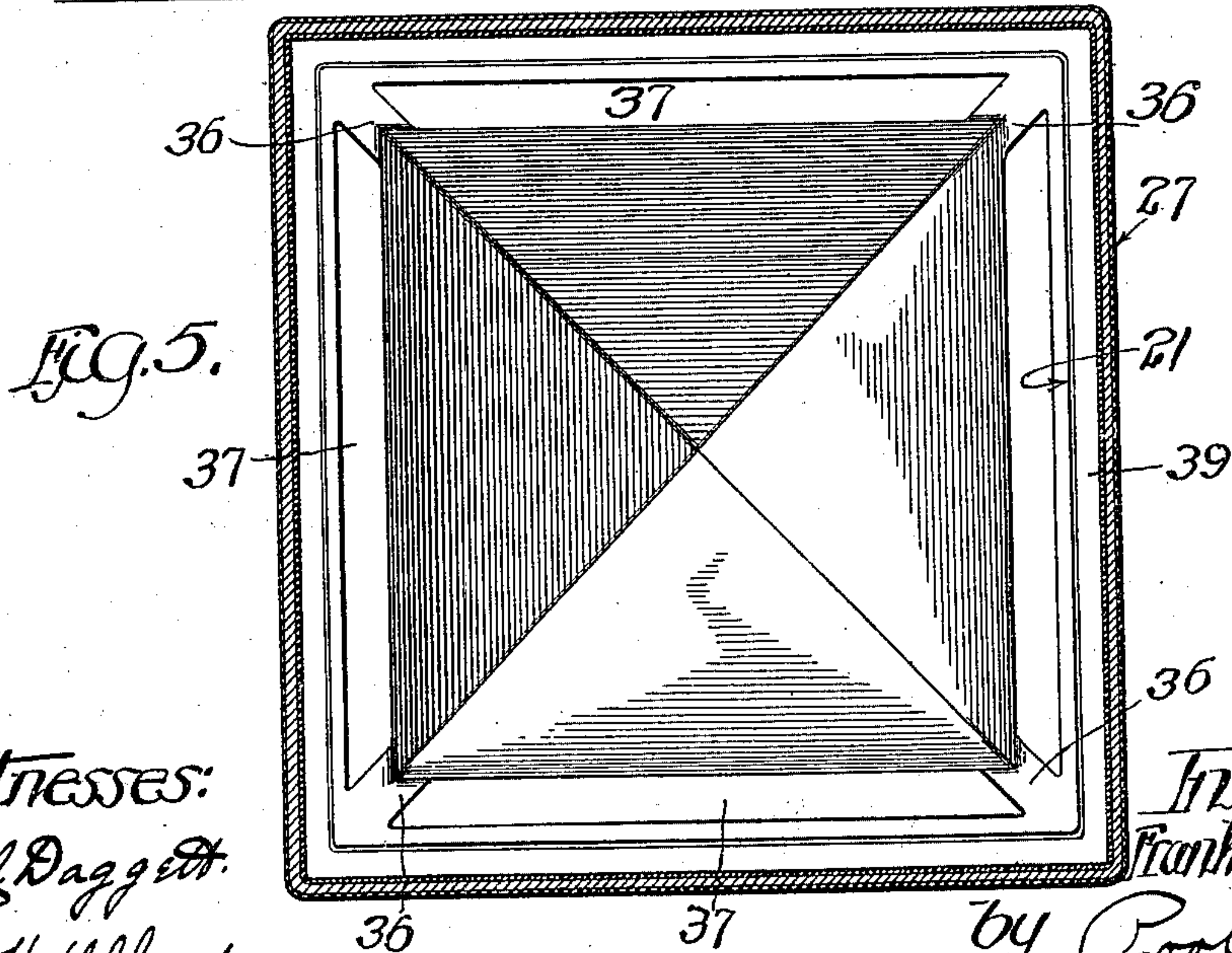
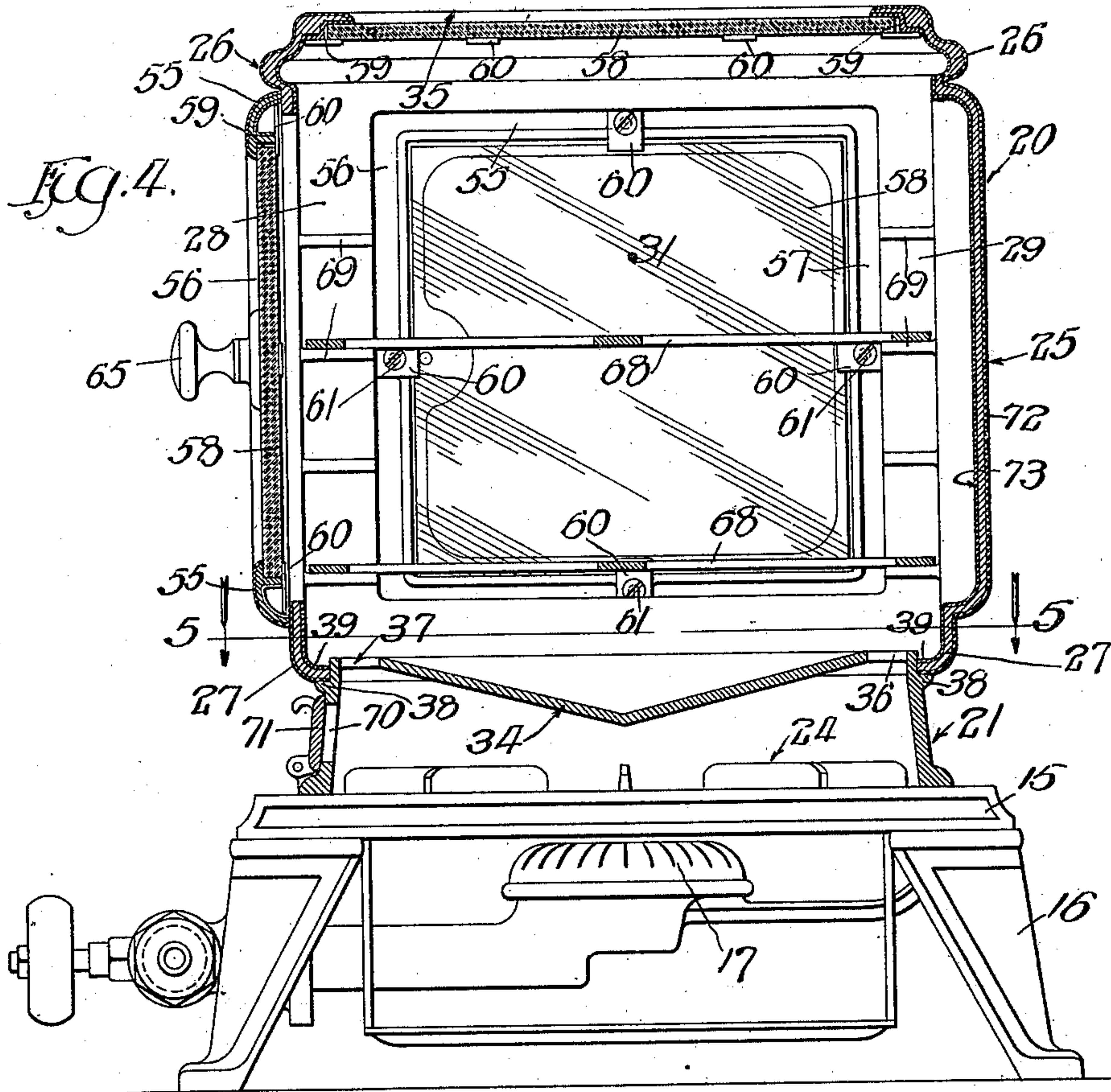
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4 SHEETS—SHEET 3.



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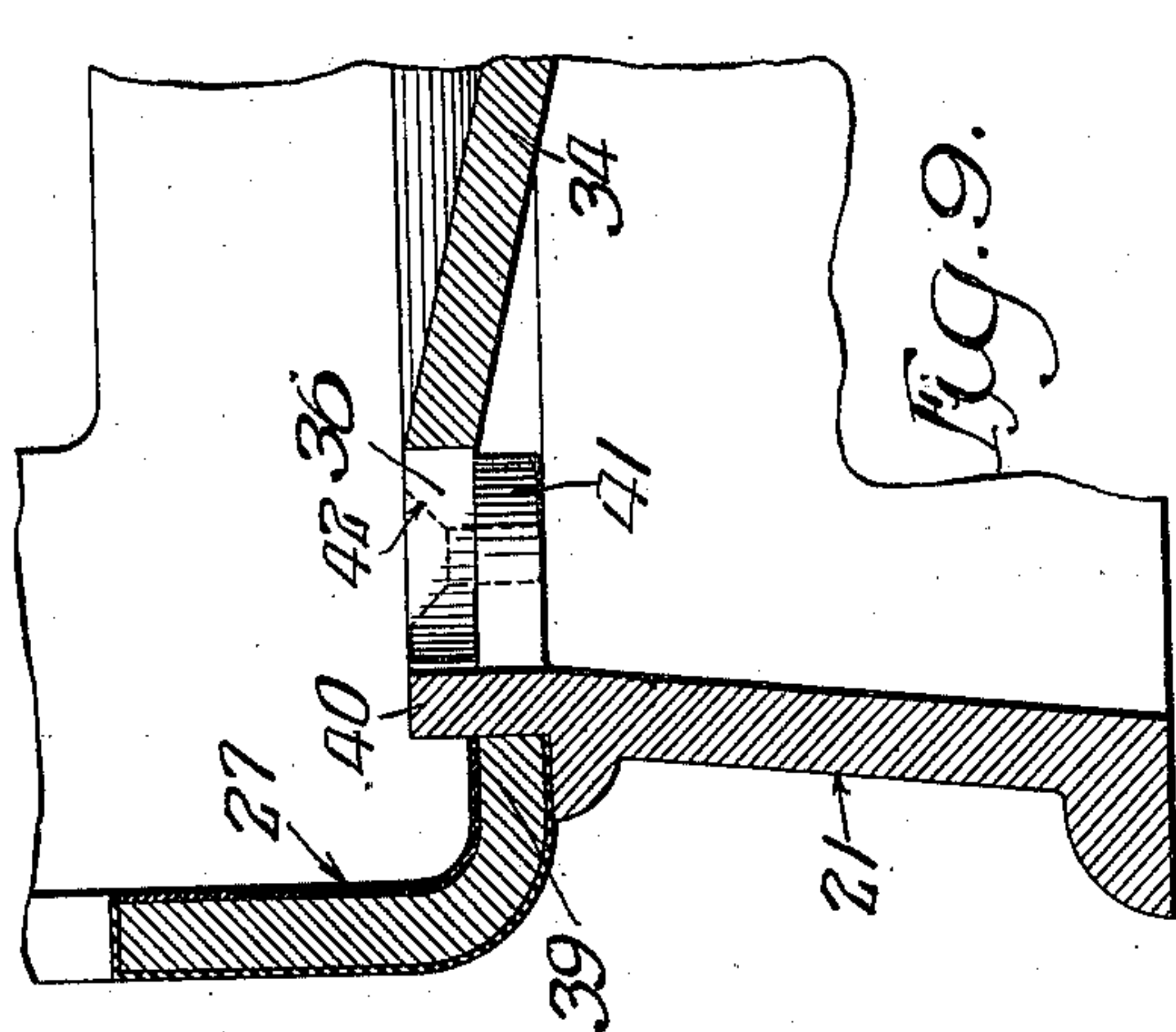


Fig. 9.

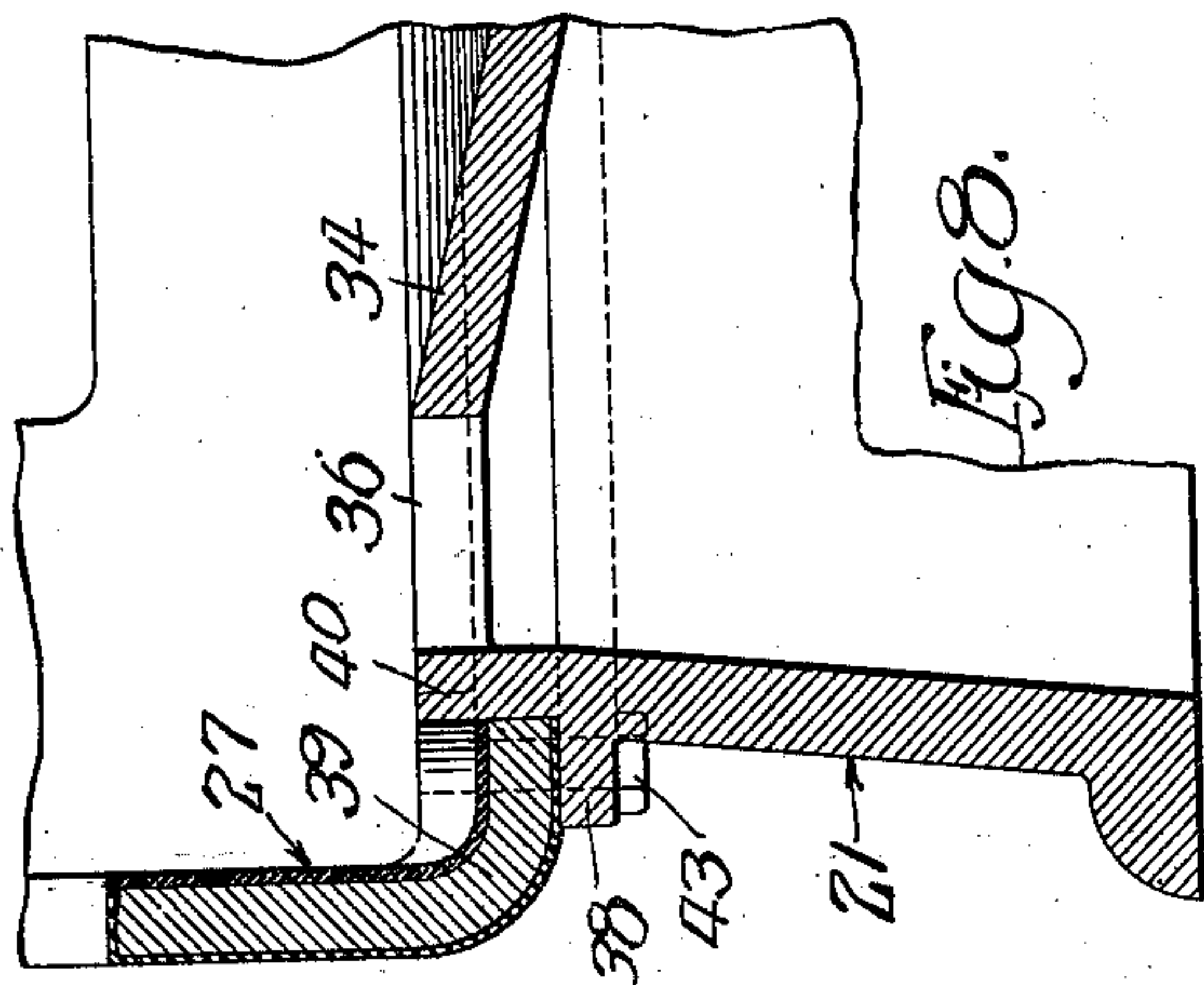


Fig. 8.

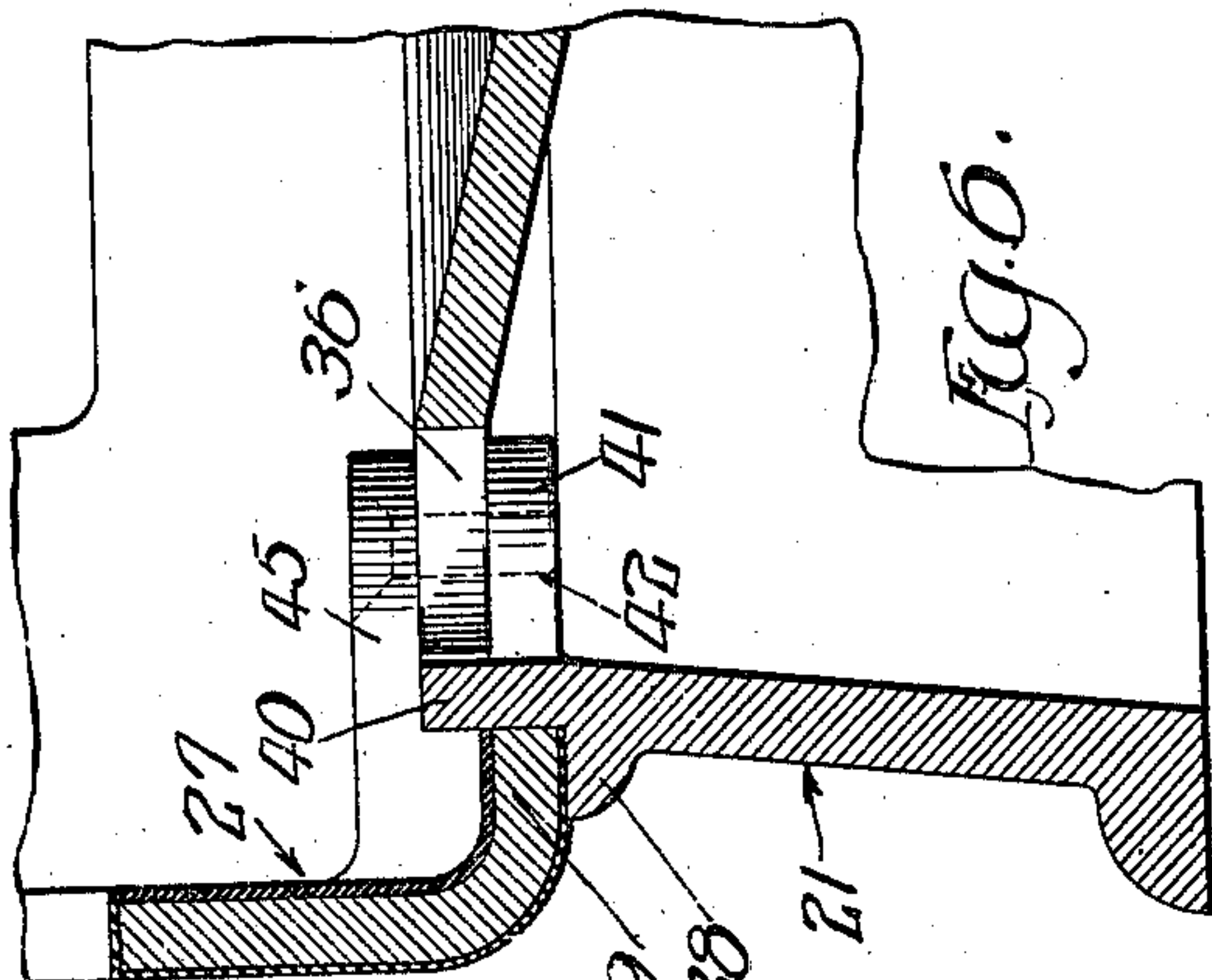


Fig. 6.

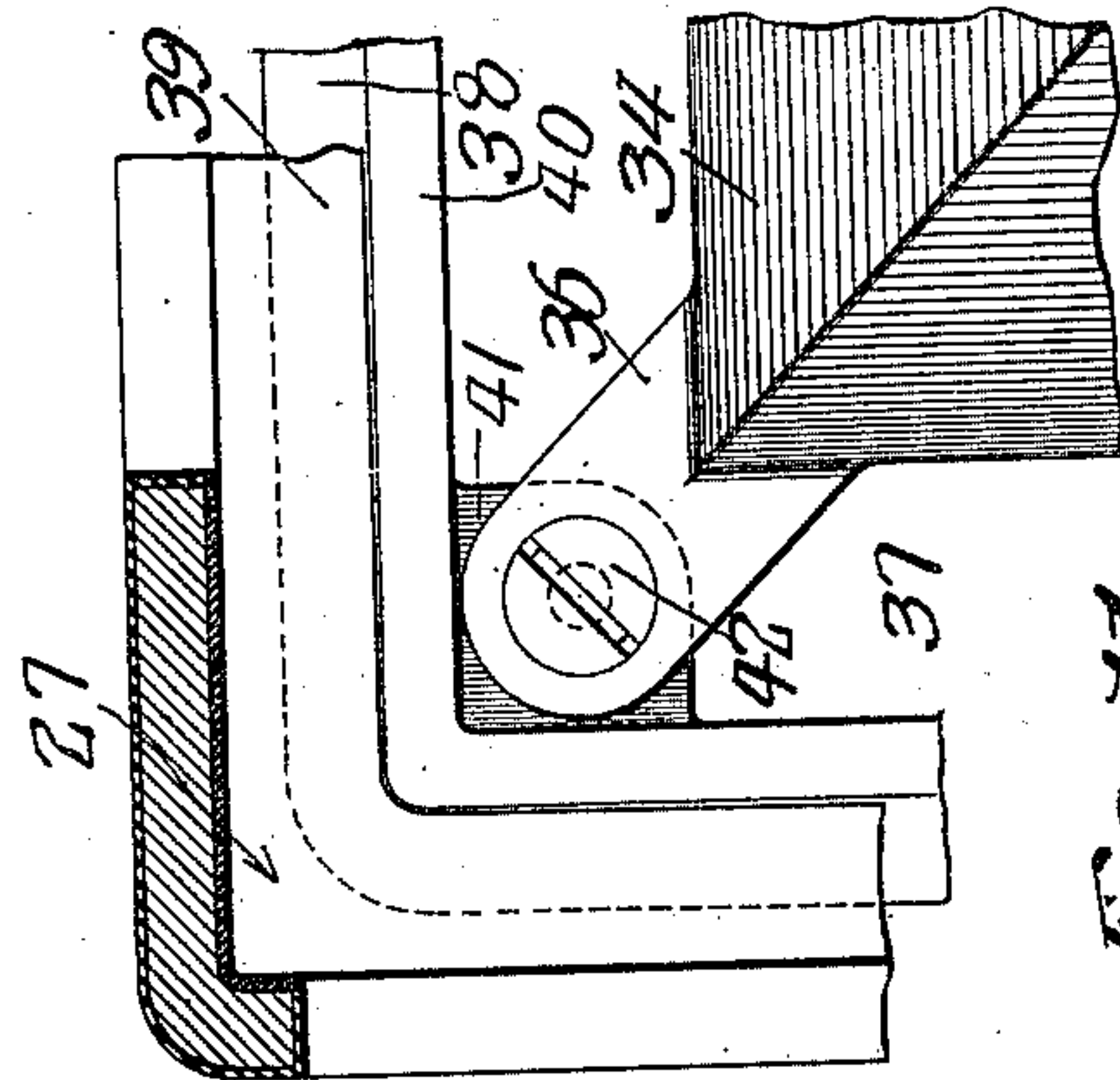


Fig. 11.

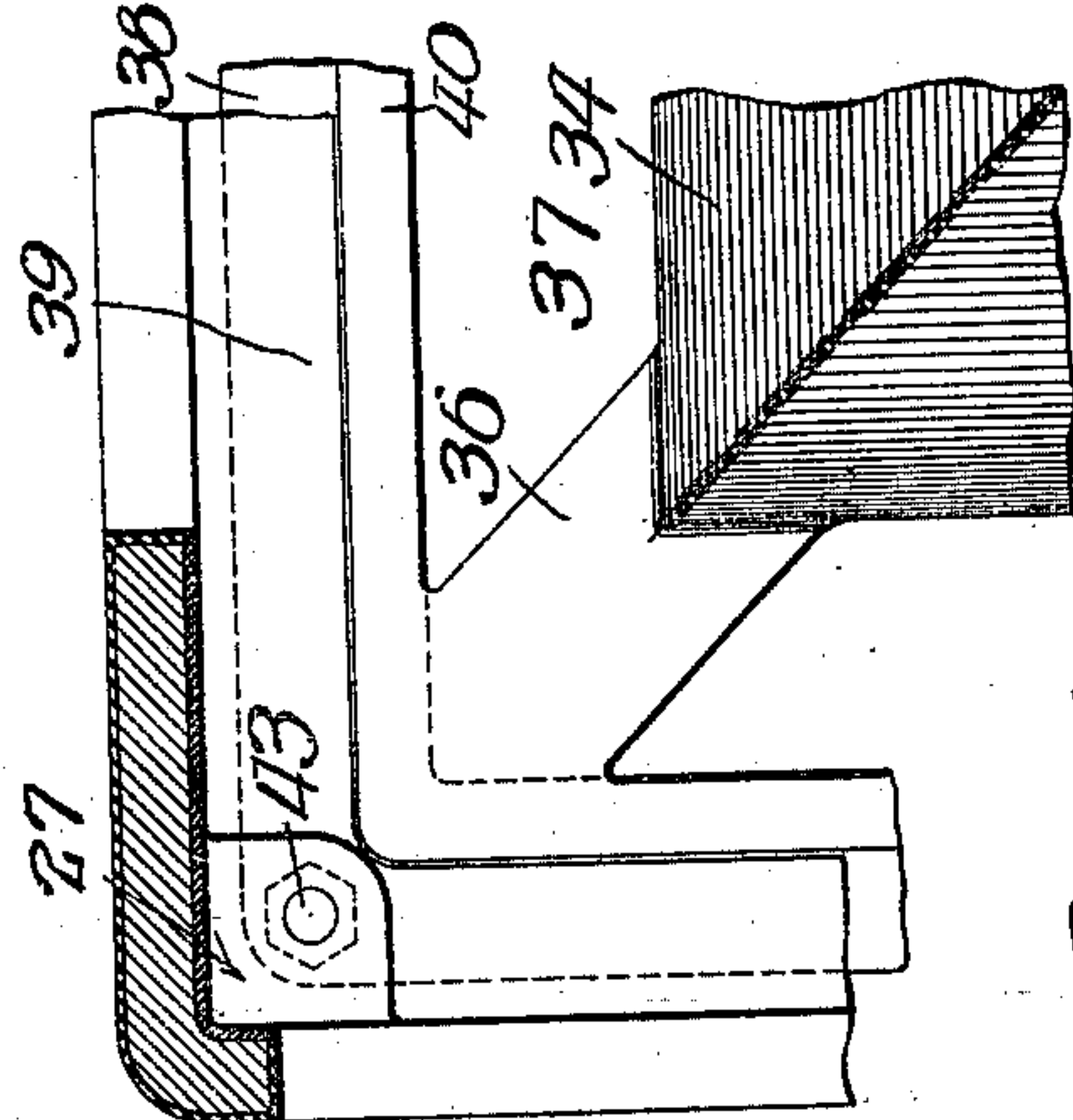


Fig. 10.

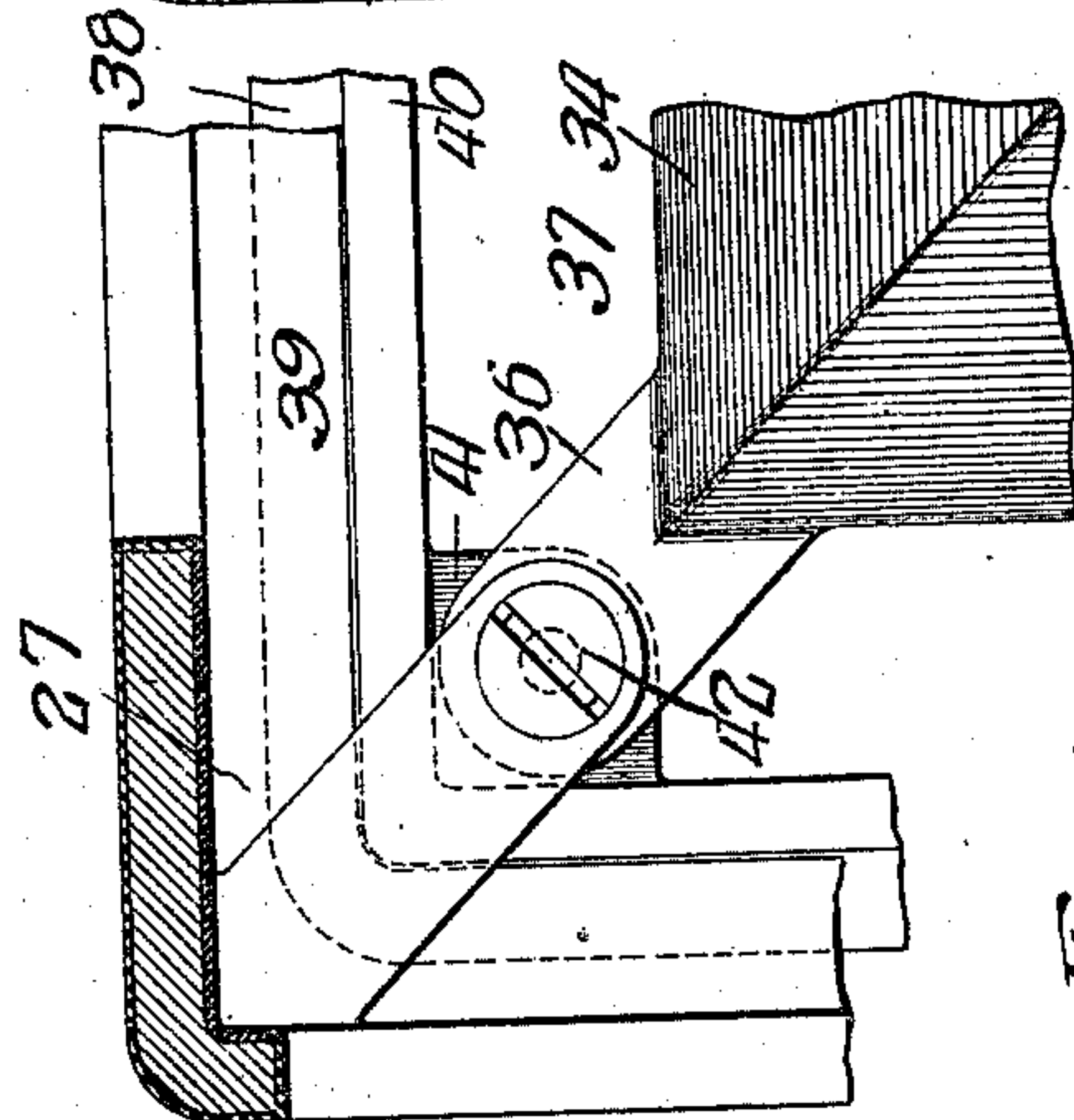


Fig. 7.

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UNITED STATES PATENT OFFICE.

FRANK L. GOODRICH, OF BELVIDERE, ILLINOIS.

OVEN FOR GAS-STOVES.

989,842.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed May 22, 1908. Serial No. 434,355.

To all whom it may concern:

Be it known that I, FRANK L. GOODRICH, a citizen of the United States, and a resident of Belvidere, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Ovens for Gas-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to a novel portable baking or roasting oven for gas stoves or tables, and the invention consists in the matters hereinafter set forth and more particularly pointed out in the appended claims.

In the drawings:—Figure 1 is a front elevation of a gas stove or table provided with an oven made in accordance with my invention. Fig. 2 is a top plan view of the oven. Fig. 3 is a horizontal section thereof. Fig. 4 is a vertical section of the oven, showing the stove in end elevation. Fig. 5 is a horizontal section, taken on line 5—5 of Fig. 4. Fig. 6 is a detail illustrating one construction for joining the oven frame to the oven base and for fixing the top plate of the base in position. Fig. 7 is a horizontal section of the parts shown in Fig. 6. Figs. 8 and 9 are views similar to Fig. 6 illustrating modifications. Figs. 10 and 11 are horizontal sections, respectively, of the constructions shown in Figs. 8 and 9.

The gas stove herein shown comprises a horizontal, rectangular frame or table supported on legs 16 and provided with burners 17 of any preferred form located beneath the horizontal frame or table 15.

20 designates, as a whole, my improved oven and 21 designates an oven base which is removably mounted on the stove or table 15 and upon which the oven proper is removably supported. The said oven base is open at its lower side and rests at the lower margins of its walls on the top of the table 15 and incloses the usual supporting ribs 24 of said table on which are supported the articles to be heated when the stove is used without the oven. The oven frame proper may be made as an integral casting, and consists of a back wall 25, upper and lower rectangular frame members 26, 27, respectively, and upright posts 28, 29 joining the upper and lower rectangular frames; the posts 28 being located at the front of the oven and

the posts 29 being located at the rear of the oven and made integral with the sides of the back wall, which latter is also integral with the rear members of the upper and lower frame members 26 and 27, respectively. The front and sides of the oven consist of swinging doors 30, 31, respectively, the latter of which are hinged by hinges 32, 32 to the rear posts 29, and the former of which is hinged by hinges 33 to one of the front posts 28. The top of the oven base comprises an inverted pyramidal plate 34 which is located at the upper side of said base 21 and may constitute an integral part of said base or be detachably secured thereto. The top wall of the oven consists principally of a sheet glass panel 35 which is mounted in the upper rectangular frame member of the oven in the manner shown in Fig. 4 and which will be hereinafter described. The said top plate of the base is joined at its corners by arms 36 to the corners of the base 21 and is made of less horizontal dimensions than the like dimensions of the base, thereby providing spaces 37 between the margins of the top plate and said base to permit the heated air to pass upwardly from the base to the oven. The lower, rectangular frame member 27, of the oven is seated over the upper open side of the base 21 and rests on an exterior horizontal ledge 38 extending laterally from and made integral with the walls of said base. The lower margin of the lower frame member of the oven is turned inwardly to form a horizontal supporting flange 39 which rests on said ledge 38 and bears at its inner margin against an upwardly extending rim 40 of the base which rises above said ledge 38, whereby said oven is held centrally on the base.

As shown in Figs. 5, 8 and 10, the connecting arms 36 of the base top plate are made integral with said top plate and also integral with the walls of the base. In the construction shown in Figs. 6, 7, 9 and 11, the said arms 36 are made integral with said top plate but are detachably connected with lugs 41 extending inwardly from the corners of the walls of the base by means of screw bolts 42. The said oven frame may rest upon and be held in place on said base by its own weight, being unattached thereto, as indicated in Figs. 5, 9 and 11. If desired, the oven may be attached to said base by means of a bolt 43 extending through the ledge 38

and through the horizontal flange 39 of the oven frame, as shown in Figs. 8 and 10. In a generally similar manner the oven may be attached to the base by lugs 45 (Figs. 6 and 7) which extend inwardly from the oven or upper margin of the base walls and over the lugs 41, and may be attached to said latter lugs by the same bolts 42 which connect the arms 36 of the base top plate with said lugs 41.

The side and front doors 30 and 31, 31, respectively, each consist of a complete surrounding metal frame, having top and bottom members 55, 55 and side members 56, 57, and a depressed panel of sheet glass 58, which latter constitutes the principal portion of the door. The said glass panels of the doors and also the top wall are attached at their margins to the door frames and upper frame member, respectively, by yielding connections which permit differential expansion of the glass and metal without injury to the former. The attachment of the glass panels to the door frames and the top frame member of the oven to produce the result is herein shown as made as follows:—The said glass panels fit at their margins in rabbets 59, formed on the inner marginal portions of the members of the frames in which they are held, and said panels are made of less dimensions than the rabbeted portions of the frames, thus permitting the glass panels to expand outwardly, relatively to the metal frames without danger of cracking the glass. The panels are confined in said rabbeted portions of the frames by means of yielding or resilient clips 60, 60 which are attached at their outer ends to the inner sides of their respective frame members by countersunk screws 61 and extend at their inner ends in overlapping relation over the adjacent margins of the glass panels. The said doors are provided with the usual knobs 65 by which they may be opened and closed. They are also provided at their free margins with latches 66 which extend endwise therefrom for engagement with notched lugs 67 formed on or fixed to the door frame or post, and by which said doors are held closed. The said oven is provided interiorly with a plurality of horizontal shelves 68, 68 which are supported at their side margins on ledges 69, 69 formed on the inner sides of the front and rear posts 28 and 29, respectively, said shelves being adapted to be inserted into the oven through the front opening thereof when the front door 30 is open. The front wall of the base 21 is provided with an opening 70, closed by a door 71, through which may be inserted a taper or torch to light the burner or burners beneath the base.

The exterior surface of the walls of the oven are coated with a heavy coat of enamel 72 to give the same a neat and attractive appearance, and also to prevent the oven be-

coming greasy and grimy. The enamel employed is of a vitreous character which is applied in a plastic state and is fixed by heat, and produces a surface which is smooth and exceedingly hard. The inner surfaces of the metal parts of the oven walls may, for a like reason, be covered with a coat of like enamel 73.

An oven made in accordance with my invention presents a very neat and attractive appearance and may be kept in a sanitary condition at the expense of little time and labor. The provision of the two side and front swinging doors is advantageous, inasmuch as this construction affords easy and ready access to all parts of the oven for the purpose of inserting or removing articles therefrom and enables the interior of the oven to be fully exposed for the purpose of cleaning and ventilating the same. Furthermore, the provision of the three doors, which permits access to the oven from three sides thereof, enables said oven to be used in locations where convenient access could not be had to an oven having a single door, as, for instance, in locations where access may be cut off from one or more sides of the oven by an adjacent wall, an article of furniture or the like. The use of glass panels in the doors and the top wall is advantageous inasmuch as it permits the operation of the oven to be fully observed while the oven is closed, thus avoiding the necessity of admitting cool air or drafts to the oven when the contents thereof are to be inspected. Moreover, the use of the glass panels applied as described adds greatly to the attractiveness of the oven.

The base 21 may be formed at the lower margins of its walls to fit over and inclose different styles or types of gas stoves or tables in connection with which the oven is to be used, and will be formed at its upper side to receive and support oven frames which roughly adhere to general standards of dimensions and shapes of ovens. That is to say, the said base 21 constitutes a connection that may adapt standard ovens of the character described to gas stoves or tables varying somewhat in their dimensions and contour. Thus, for different designs of gas stoves, various designs of the base 21 may be employed to support ovens of standard sizes and shapes.

Structural changes may be made without departure from the spirit of my invention and I do not wish to be limited to such details except as hereinafter made the subject of specific claims.

I claim as my invention:—

1. A portable oven for gas stoves and tables provided with a base adapted to rest on and be supported by a gas stove or table, said oven comprising a frame consisting of a back wall, upper and lower horizontal, open

frame members, and corner posts connecting said upper and lower frame members, the lower frame member being detachably fitted to said base and the top wall of the oven being supported by the upper frame member, and front and side swinging doors hinged to said posts to constitute the side and front walls of the oven.

2. A portable oven for gas stoves and tables provided with a rectangular base which is open at its lower side to rest upon and be supported by a gas stove or table, said oven being open at its lower side and removably fitted to the upper side of said base, the base having a top wall of inverted pyramidal form supported at separated points

on the side walls of the base and arranged to provide between its margins and said walls of the base spaces for the passage of heated air from the base to the oven, said oven being provided in its wall with an opening, and a swinging door for closing said opening.

In testimony, that I claim the foregoing as my invention I affix my signature in the presence of two witnesses, this 8th day of May A. D. 1908.

FRANK L. GOODRICH.

Witnesses:

WILLIAM L. HALL,
T. H. ALFREDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
