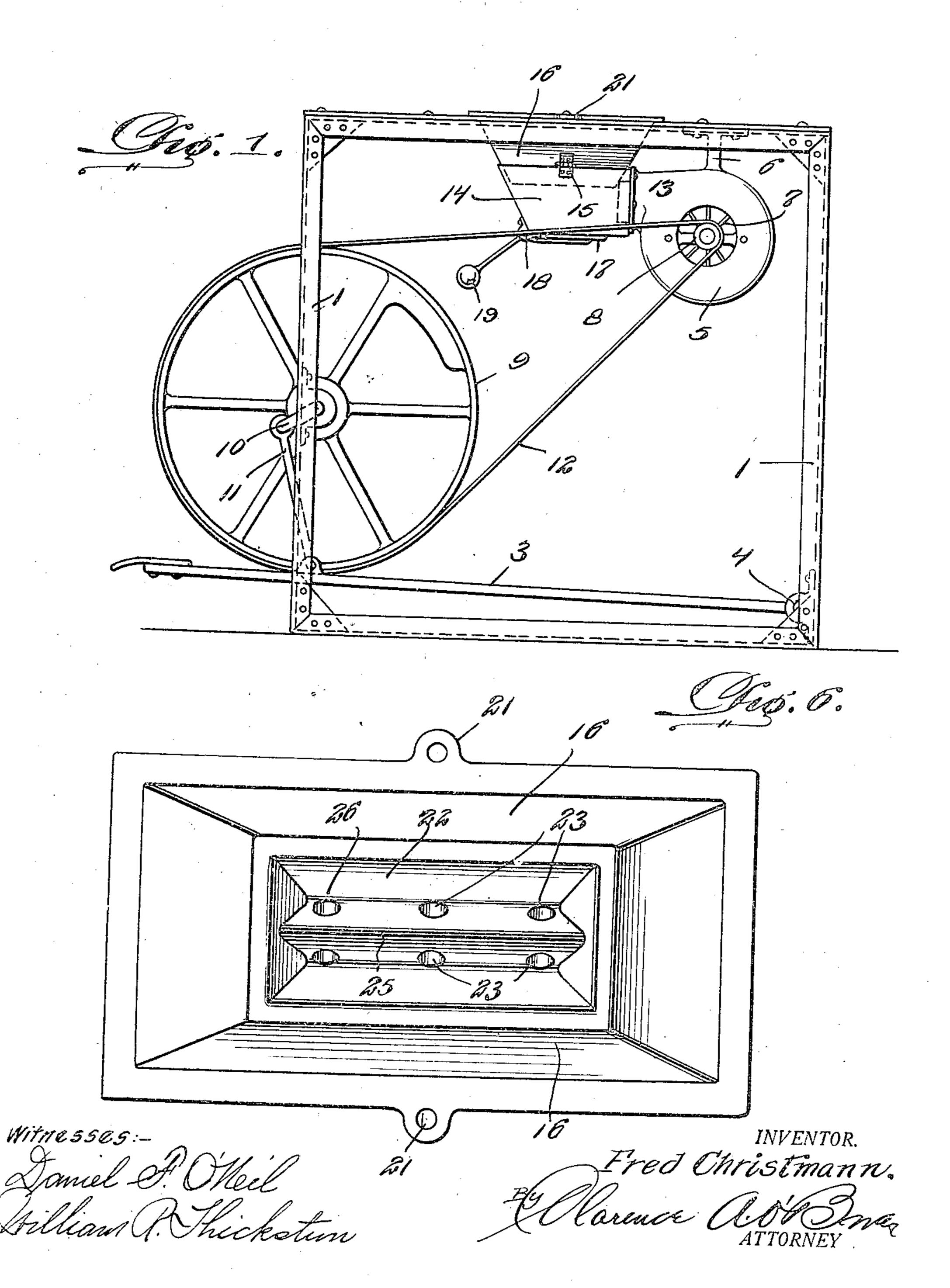
F. CHRISTMANN.
FORGE.
FILED MAY 31, 1921.

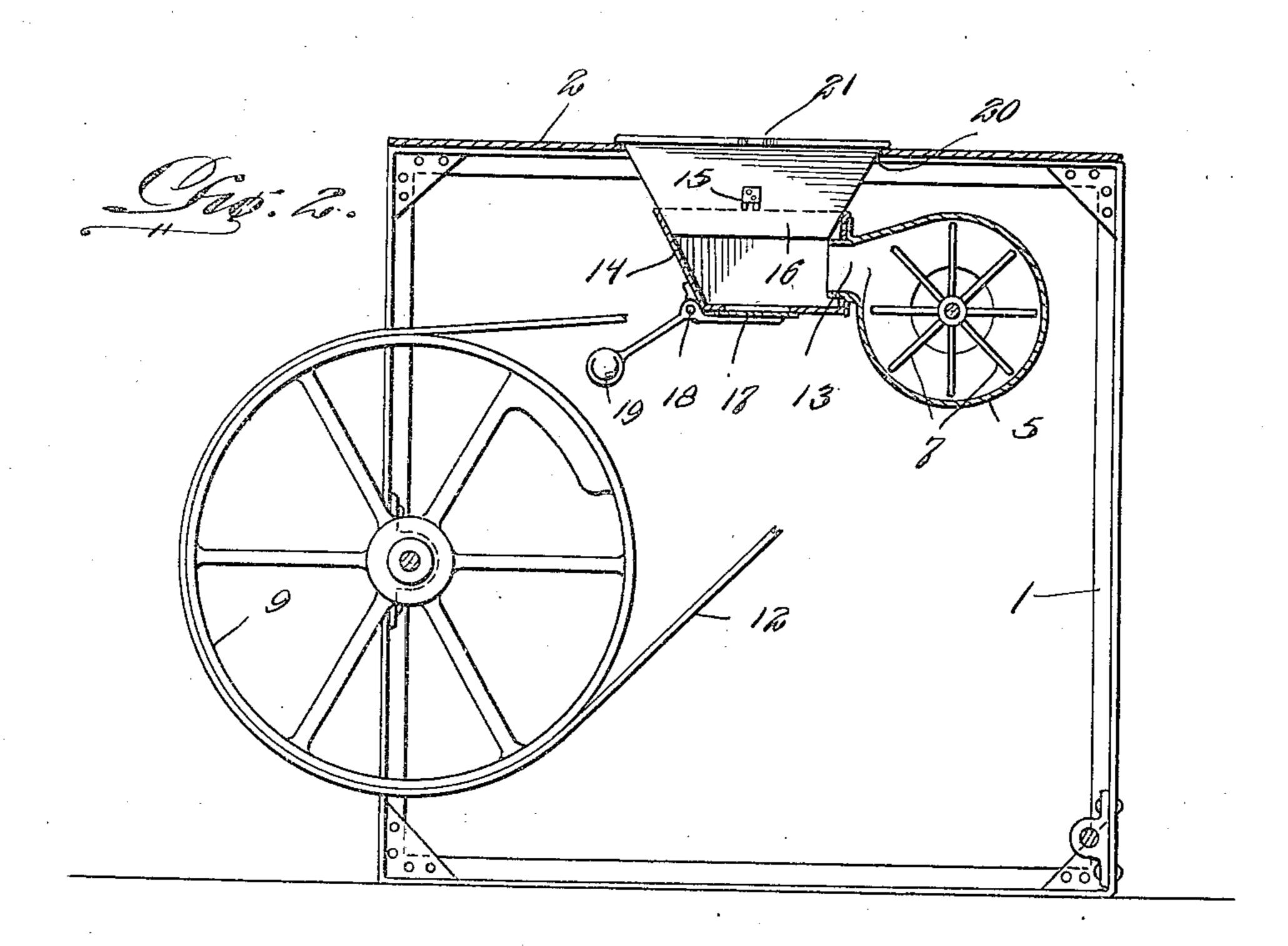
3 SHEETS-SHEET 1

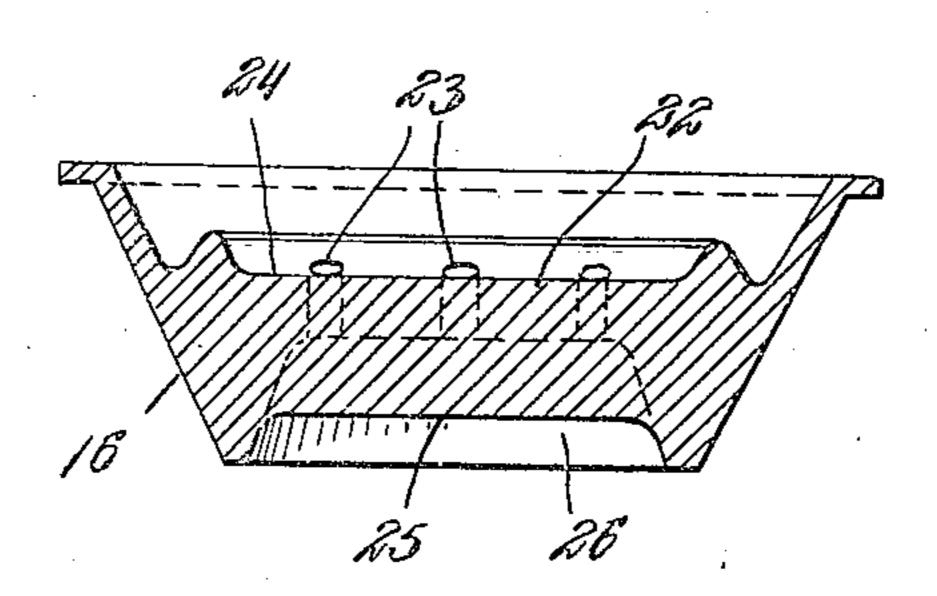


Jan. 2, 1923.

F. CHRISTMANN. Forge. FILED MAY 31, 1921.

3 SHEETS-SHEET 2

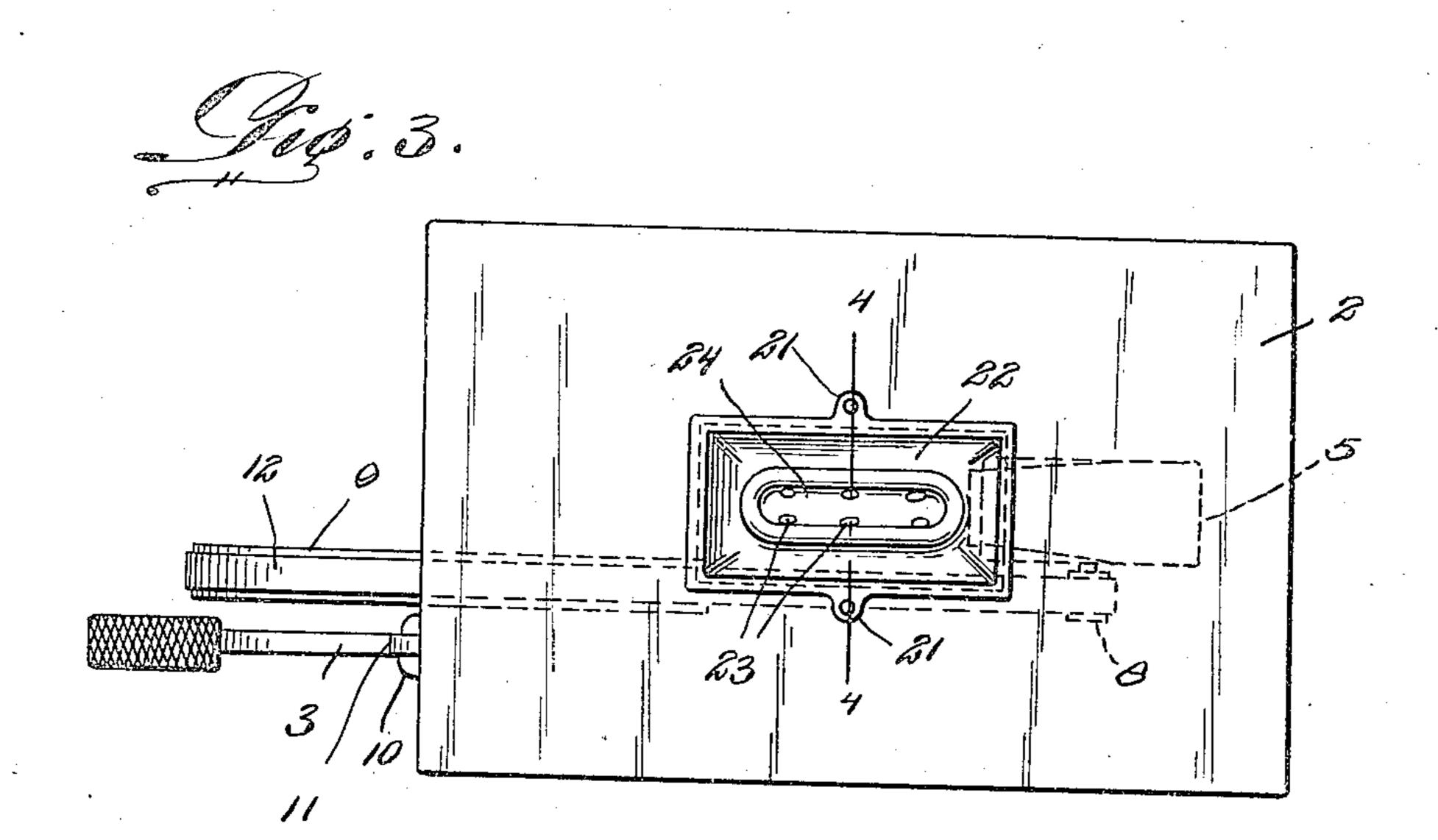




Inventor Fred Christmann

F. CHRISTMANN,
FORGE.
FILED MAY 31, 1921.

3 SHEETS-SHEET 3



Witnesses:
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Som Claruner and Smin.

## UNITED STATES PATENT OFFICE.

FRED CHRISTMANN, OF CHICAGO, ILLINOIS.

FORGE.

Application filed May 31, 1921. Serial No. 473,964.

To all whom it may concern:

citizen of the United States, residing at which it is normally maintained in closed Chicago, in the county of Cook and State of position. 5 Illinois, have invented new and useful Im- The pendent portion 16 of the fire casting ing is a specification.

10 be operated with but little coal is so con-superimposed upon and bolted to the top fire capable of assisting in the performance of

various kinds of work.

To the attainment of the foregoing, the in-15 vention consists in the improvement as hereinafter described and definitely claimed.

part of this specification:—

Figure 1 is a side elevation of my novel

20 forge.

tion.

Figure 3 is a top plan view of the forge.

line 4—4 of Figure 3.

section through the fire casting.

Figure 6 is an enlarged detail inverted fire casting, it will be understood that the plan view of the fire casting.

Similar numerals designate corresponding parts in all of the views of the drawings.

In the present and preferred embodiment ance of various kinds of work. 35 of my invention the forge comprises a frame I have entered into a detailed description 1, a top plate 2 fixed thereon, a pedal lever 40 having a hand pulley 8, a band wheel 9 ing of the said embodiment. I do not desire, 45 ments are not, however, of the essence of my changes and modifications may be made such be rotated in any approved manner without defined in my appended claim.

50 charge trunk 13 of the blower casing 5 is ent, is:— 55 in the receptacle 14 as illustrated. At 17 a fire casting having lugs superimposed on

door, hinged at 18 and equipped with a Be it known that I, Fred Christmann, a weighted arm 19 through the medium of

provements in Forges, of which the follow- rests in an opening 20 in the top plate 2, Figure 4, and in addition to the said pendent My present invention has for its object the portion 16, the fire casting comprises outprovision of a forge which while adapted to wardly reaching apertured lugs 21 which are 65 structed as to maintain a steady and clean plate 2. Interiorly the pendent portion 16 of the fire casting is provided at an intermediate point in its height with a partition 22; the said partition being char- 70 acterized by spaced longitudinal series of apertures 23, a channel 24 into which open In the accompanying drawings, forming the upper ends of the said apertures 23, and a pendent longitudinal central and downwardly-tapered rib 25 located between 75 the lower ends of the apertures of the Figure 2 is a longitudinal vertical section two sets. The hollow lower end of the castof the same with some parts in side eleva- ing portion 16 is tapered upwardly at its inner side as indicated by 26 in Figure 4 so as to assist in guiding the air blast to the lower 80 Figure 4 is an enlarged detail transverse ends of the apertures 23, and above the parsection taken in the plane indicated by the tition 22, the casting portion 16 is hollow and open as illustrated in Figures 3-5. In vir-Figure 5 is a detail longitudinal vertical tue of the two series of apertures 23 at opposite sides of the longitudinal center of the 85 air blast supply will be evenly divided, and a steady and clean fire will be maintained, susceptible of use to advantage in the perform-

of the construction and relative arrangement 3, pivoted at 4 to the frame, a blower casing of parts embraced in the present and pre-5 suspended at 6 from the top plate 2, a ro- ferred embodiment of my invention in order tary blower 7 mounted in said casing and to impart a full, clear and exact understand- 95 mounted in the frame and having a crank however, to be understood as confining my-10, a link 11 connecting the lever 3 and self to the said specific construction and the crank 10, and a band 12 connect-relative arrangement of parts in asmuch as in ing the pulley 8 and the wheel 9. These ele-the future practice of the invention various 100 invention, and therefore the blower 7 may as fall within the scope of my invention as

affecting my invention as claimed.

Having described my invention, what I In furtherance of my invention, the dis- claim and desire to secure by Letters-Pat- 105

arranged within one end of an ash recepta- The combination in a forge, of a top plate cle 14, appropriately suspended at 15 from having an opening, means supporting said the pendent portion 16 of the fire casting, top plate, a blower casing suspended from the said pendent portion 16 being telescoped the top plate and having a discharge trunk, 110 the receptacle 14 is provided with a dump and connected to the top plate and also having a downwardly tapered pendent portion and a receptacle connected with the dis- 10 resting in the opening of the top plate; said charge trunk of the blower casing and telependent portion being hollow and containing scopically receiving and connected to the 5 tion characterized by a longitudinal central ing a normally closed dump door on which is channel in its upper side, a longitudinal cen- a weighted arm. tral and downwardly tapered rib at its un- In testimony whereof, I affix my signaderside and two longitudinal series of apertures at opposite sides of the channel and rib.

at an intermediate point in its height a parti- pendent portion of the fire-casting and hav-

ture.

FRED CHRISTMANN.