

No. 864,924.

PATENTED SEPT. 3, 1907.

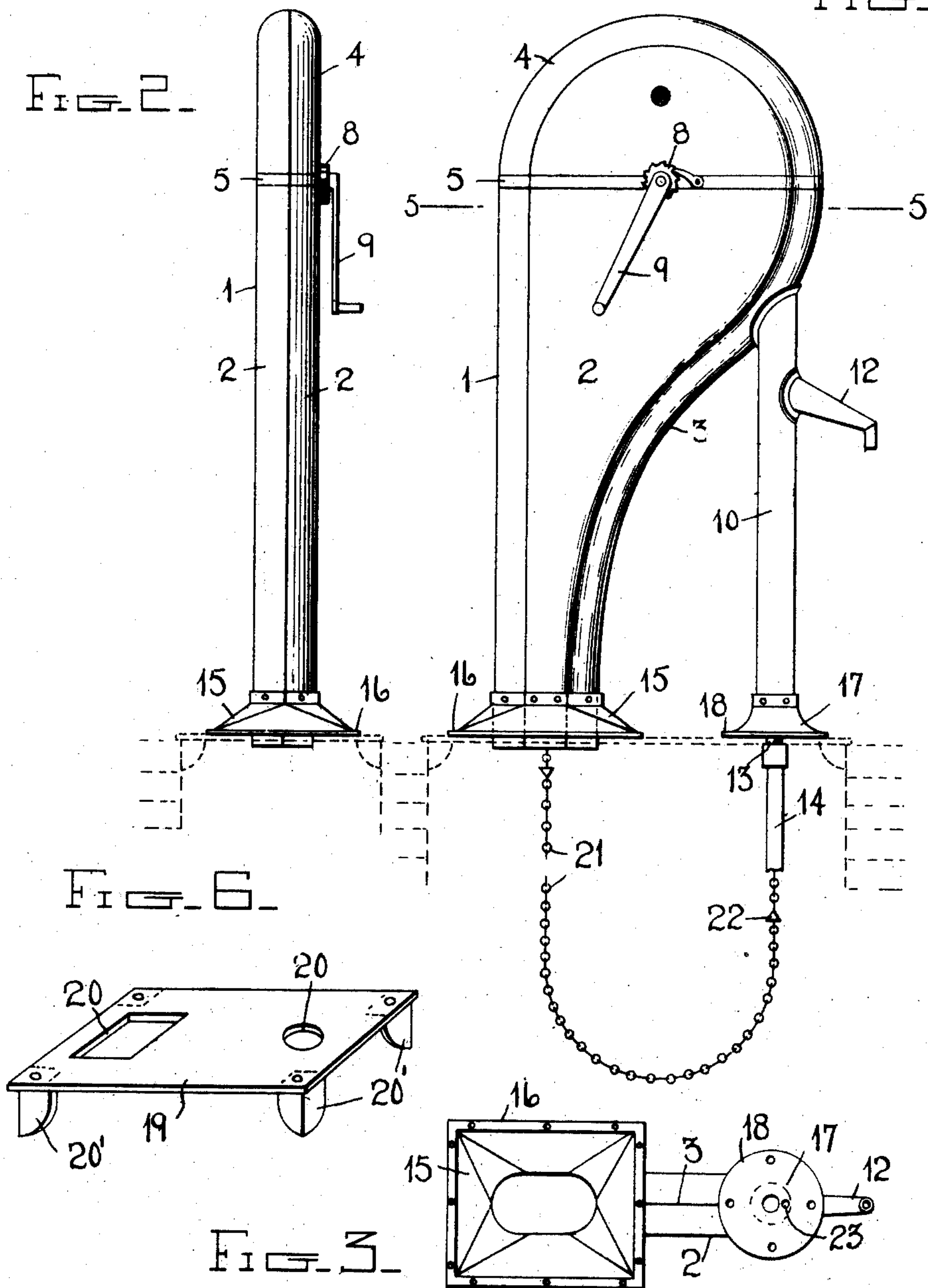
A. SCHIMMEL.
PUMP CURB.

APPLICATION FILED APR. 15, 1907.

2 SHEETS—SHEET 1.

FIG. 1.

FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 5.

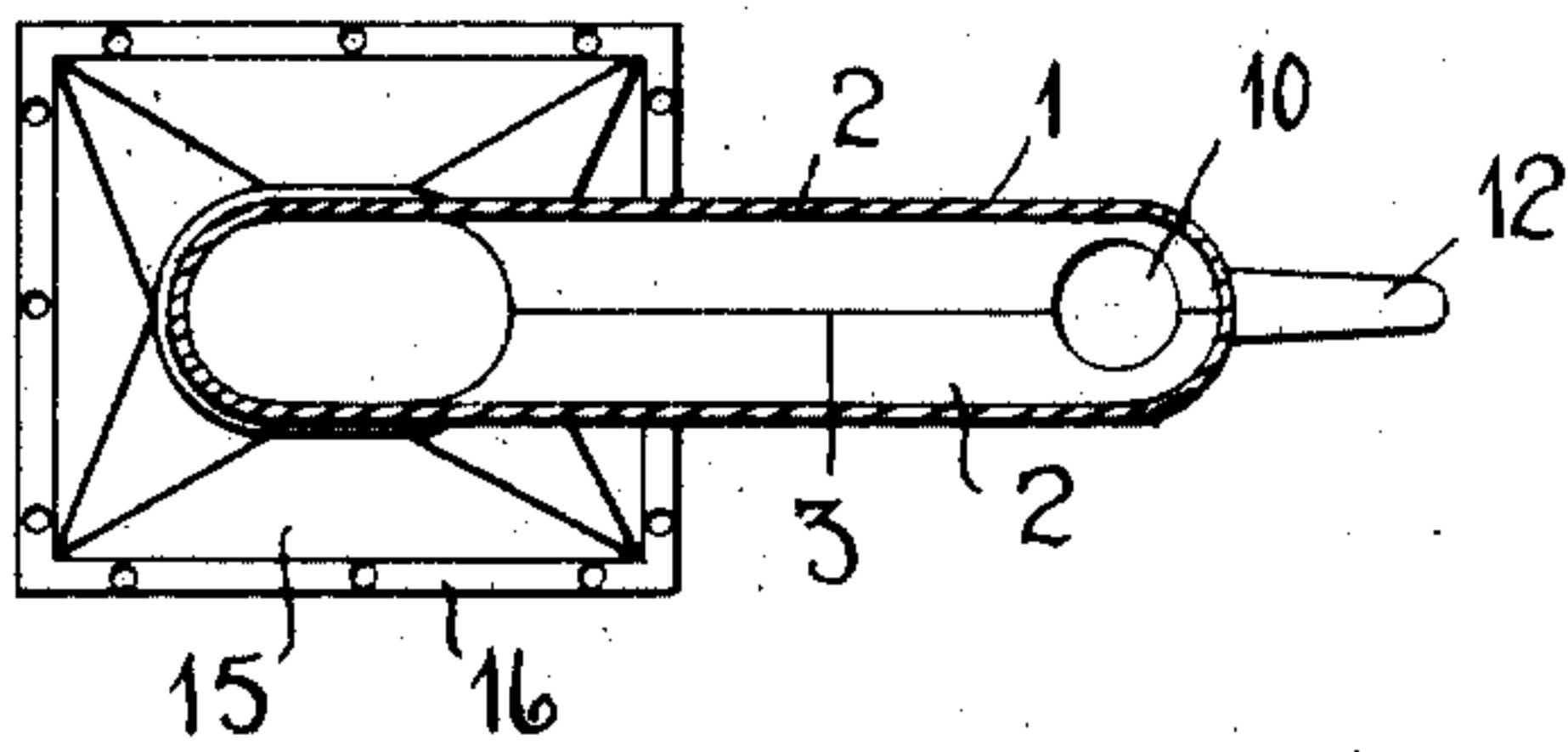


FIG. 7.

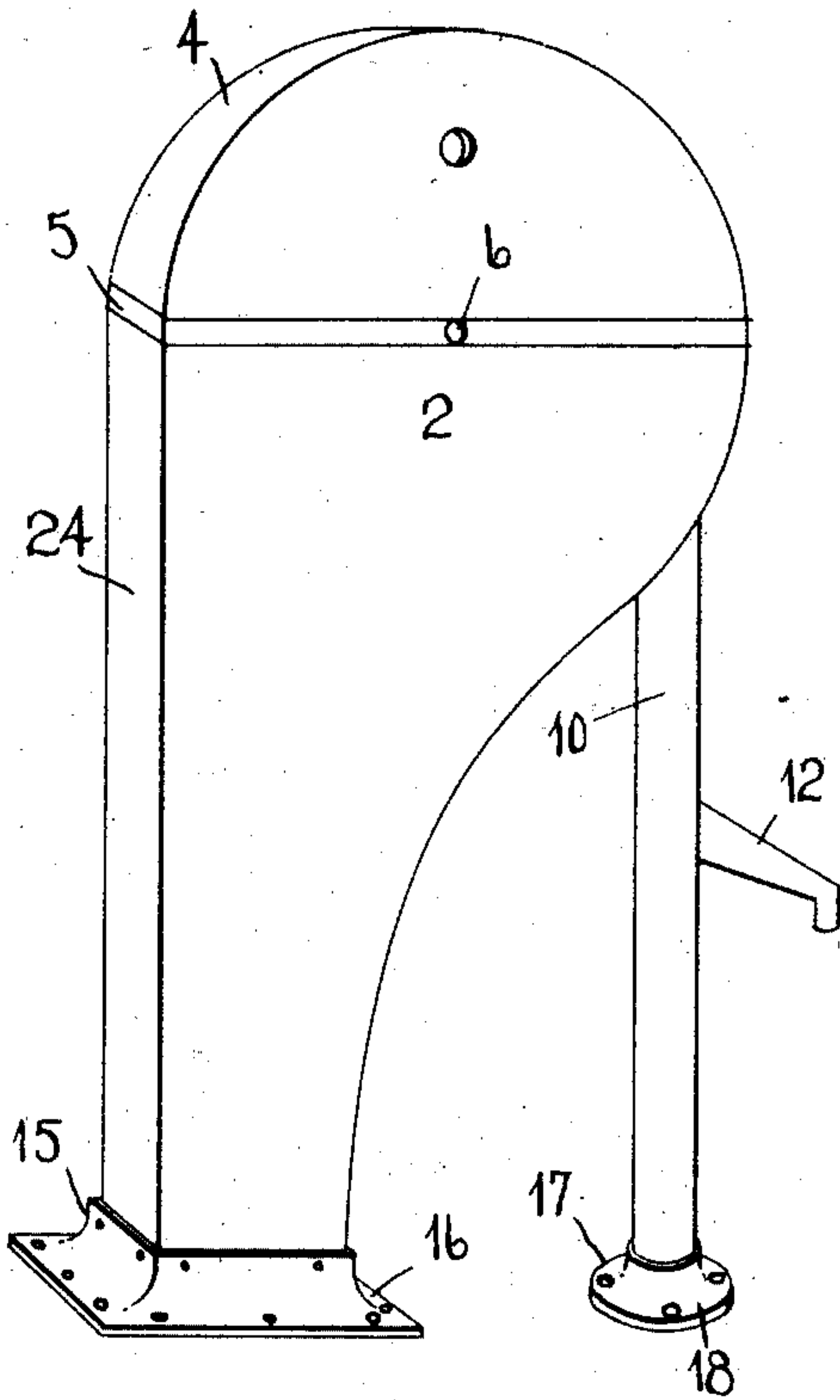


FIG. 4.

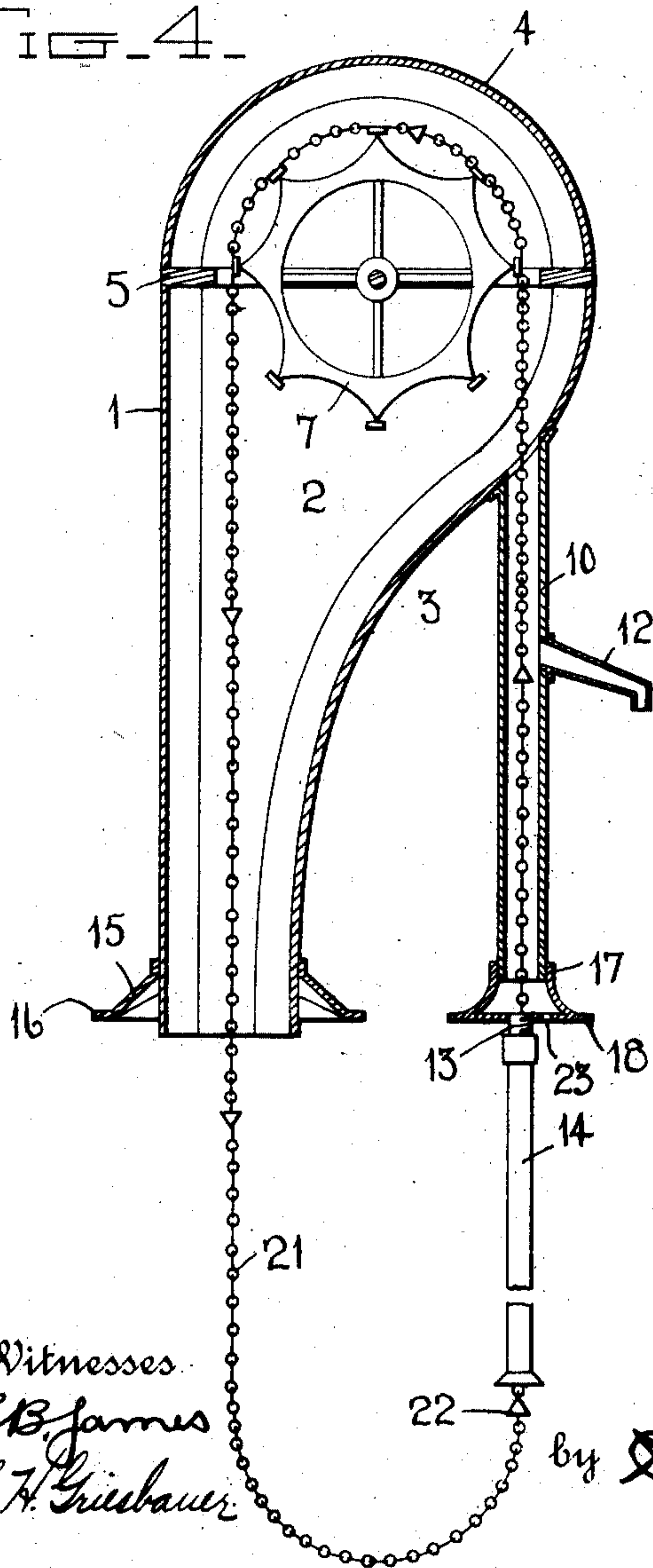
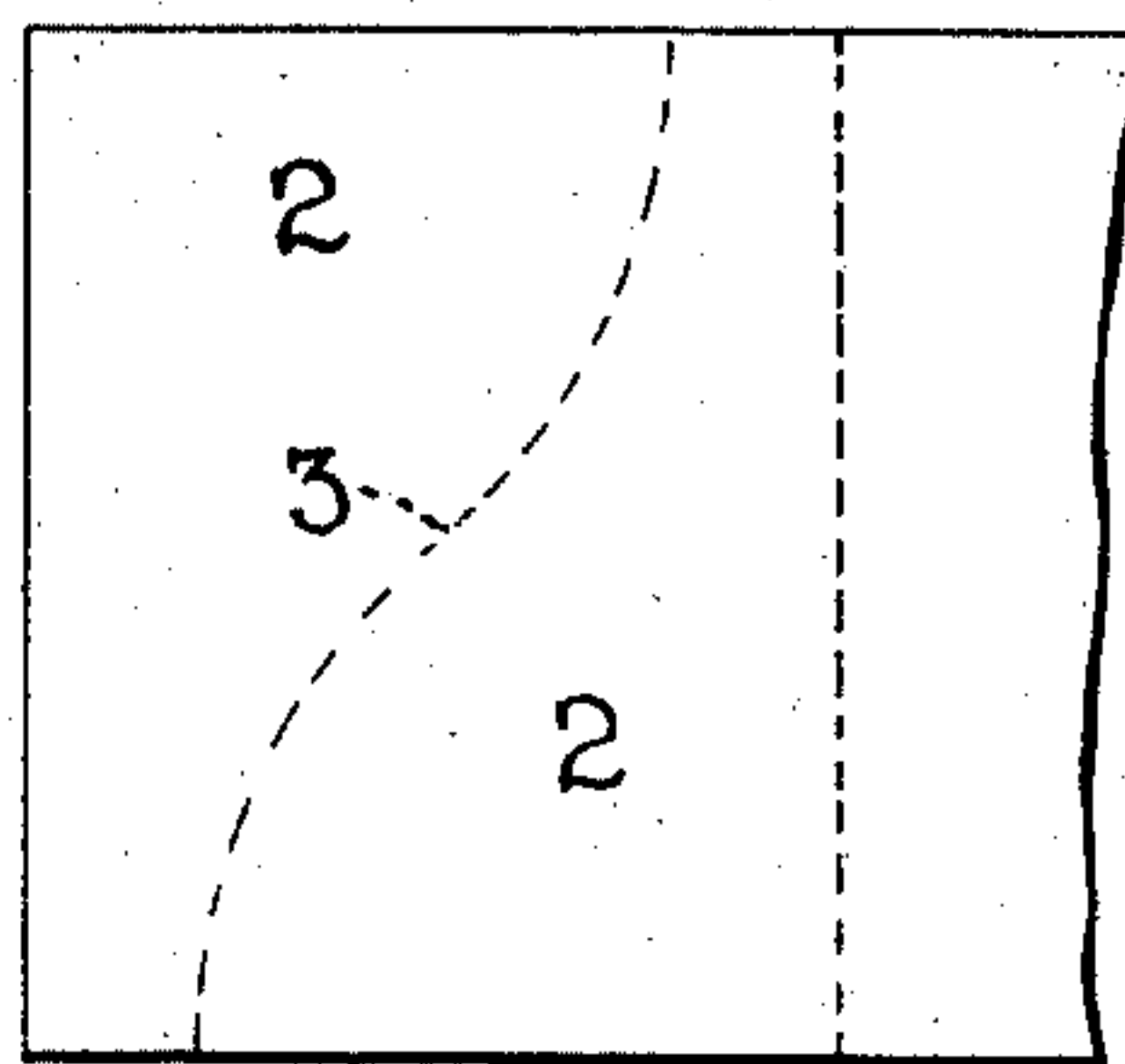


FIG. 8.



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UNITED STATES PATENT OFFICE.

ARTHUR SCHIMMEL, OF EVANSVILLE, INDIANA.

PUMP-CURB.

No. 864,924.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed April 15, 1907. Serial No. 368,341.

To all whom it may concern:

Be it known that I, ARTHUR SCHIMMEL, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Pump-Curbs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to improvements in pump curbs or stocks.

The object of the invention is to provide a pump curb formed in sections adapted to be stamped or cut from sheet metal, the shape of said sections being such as to 15 obviate the waste of any material in cutting or forming said sections.

A further object is to provide an improved base portion for securing the pump in position above a well or cistern.

20 With the foregoing and other objects in view which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter fully described and claimed.

25 In the accompanying drawings, Figure 1 is a side view of a pump curb constructed in accordance with the invention; Fig. 2 is a rear edge view of the same; Fig. 3 is a bottom plan view; Fig. 4 is a vertical longitudinal sectional view; Fig. 5 is a horizontal sectional view 30 on the line 5—5 of Fig. 1; Fig. 6 is a detail perspective view of the base enlarging plate; Fig. 7 is a perspective view of a modified form of curb; and Fig. 8 is a plan view of a piece of sheet metal showing in dotted lines the manner in which the sections of the curb are cut out 35 without any waste of metal.

Referring more particularly to the drawings, 1 denotes the curb or stock of the pump which is shown in the first figures of the drawings as formed from two counter-part sections 2, said sections being narrow at 40 their lower ends and curving outwardly and upwardly on one side in the form of a compound curve as shown at 3 whereby when two sections are laid side by side with their curved edges together, said curved edges will fit together so that in forming said sections from a sheet 45 of metal, the two sections may be cut from a square section of the metal without wasting any of the material, the construction and manner of cutting the sections of the curve being clearly shown in Fig. 8 of the drawings. The edges of the sections 2 are bent inwardly and seamed 50 together by a suitable stamping machine thereby forming the edges of the curb or stock.

The curb 1 is provided with a suitable cover 4 which may be constructed in a similar manner as the curb 1 and is adapted to be removably engaged with the upper 55 edge of the curb as shown. Around the meeting edges of the curb and the cover is arranged a bearing plate 5

in the sides of which are formed bearing openings 6 in which are journaled the laterally-projecting ends of the pump chain wheel 7. The wheel 7 is of the usual or any desired construction and is provided with the 60 usual pawl and ratchet holding mechanism 8 and crank handle 9 whereby the same is operated.

Connected with the lower edge of the outwardly-curved portion of the curb is a pump barrel 10 to which adjacent to its upper end is secured a tapered discharge 65 spout 12. The lower end of the barrel 10 is closed and with said closed end is connected a threaded nipple 13 to which is adapted to be connected the upper end of the water conducting pipe or tube 14 which extends downwardly into the well or cistern. 70

Bolted or otherwise secured to the curb 1 adjacent to its lower end is a base plate 15 having around its edge an apertured attaching flange 16 which is adapted to be bolted or otherwise secured to the platform of the well or cistern. To the lower end of the pump barrel 10 is 75 also secured a base plate 17 which is provided with an apertured flange 18 by means of which said barrel 10 is secured at its lower end to the platform of the well or cistern.

If desired, I may employ a supplemental base plate 80 19 to which the base plate 15 of the curb and base plate 17 of the pump barrel may be bolted, said supplemental base plate 19 being provided with suitable apertures 20 to permit the passage of the lower end of the curb and pump barrel therethrough. The base plate 19 when 85 thus connected to the lower ends of the curb and pump barrel securely holds the same in position and is adapted to serve as a cover plate for the well or cistern to which the pump is applied. The base plate 19 is provided on its under side with downwardly-projecting 90 substantially triangular lugs 20' which are adapted to enter the well or cistern and to engage the side walls thereof to prevent any slipping or moving of the base plate on the well or cistern.

The pump is provided with the usual or any desired 95 form of bucket chain 21 adapted to be operated by the wheel 7 around which the same passes, said chain being provided with rubber or other form of buckets 22 adapted to be drawn through the water conducting tube 14 to lift the water from the well to the pump barrel 10 from 100 which it overflows through the discharge spout 12 connected thereto. By constructing the spout 12 in tapered form as shown, the water will be lifted to the pump barrel more rapidly than it can be discharged from said spout, thereby causing said barrel to fill up 105 and overflow at its upper end into the curb and to pass through the same back into the well or cistern, thereby agitating the water and causing the same to be aerated and purified. In the lower closed end of the pump barrel 10 adjacent to the nipple 13 is formed a 110 small drain passage 23 through which the water in the barrel 10 is adapted to drain so that no water will re-

main in said barrel after the pump has been used, thus preventing the freezing up and bursting of the pump in cold weather.

5 In Fig. 7 of the drawings is shown a modified form of the pump. In this instance, the side sections of the curb are spaced apart and connected together at their outer edges by additional strips 24 forming the edges of the curb and are adapted to be soldered or connected to the edges of the side sections by hand tools. The construction and arrangement of the other parts of this form of pump are the same as those shown and described in connection with the first figures of the drawings.

10 From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

15 Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advan-

tages of the invention, as defined by the appended 20 claims.

Having thus described my invention, what I claim as new is,—

A pump curb formed of counter-part sheet metal sections adapted to be secured together at their outer edges 25 to form a pump curb which increases in size from its lower end towards its upper end, a pump barrel connected to one side of said curb, a discharge spout on said pump barrel, flanges secured to the lower end of said curb and barrel, a well or cistern covering plate adapted to receive the 30 lower end of said curb and barrel, fastening devices to secure said base plates of the curb and pump to said covering plate, lugs on the latter to hold the same in place, a detachable cover on said curb and a water elevating mechanism arranged therein, substantially as described. 35

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ARTHUR SCHIMMEL.

Witnesses:

WILLIAM J. SNURPUS,
JOSEPH REINE, Jr.