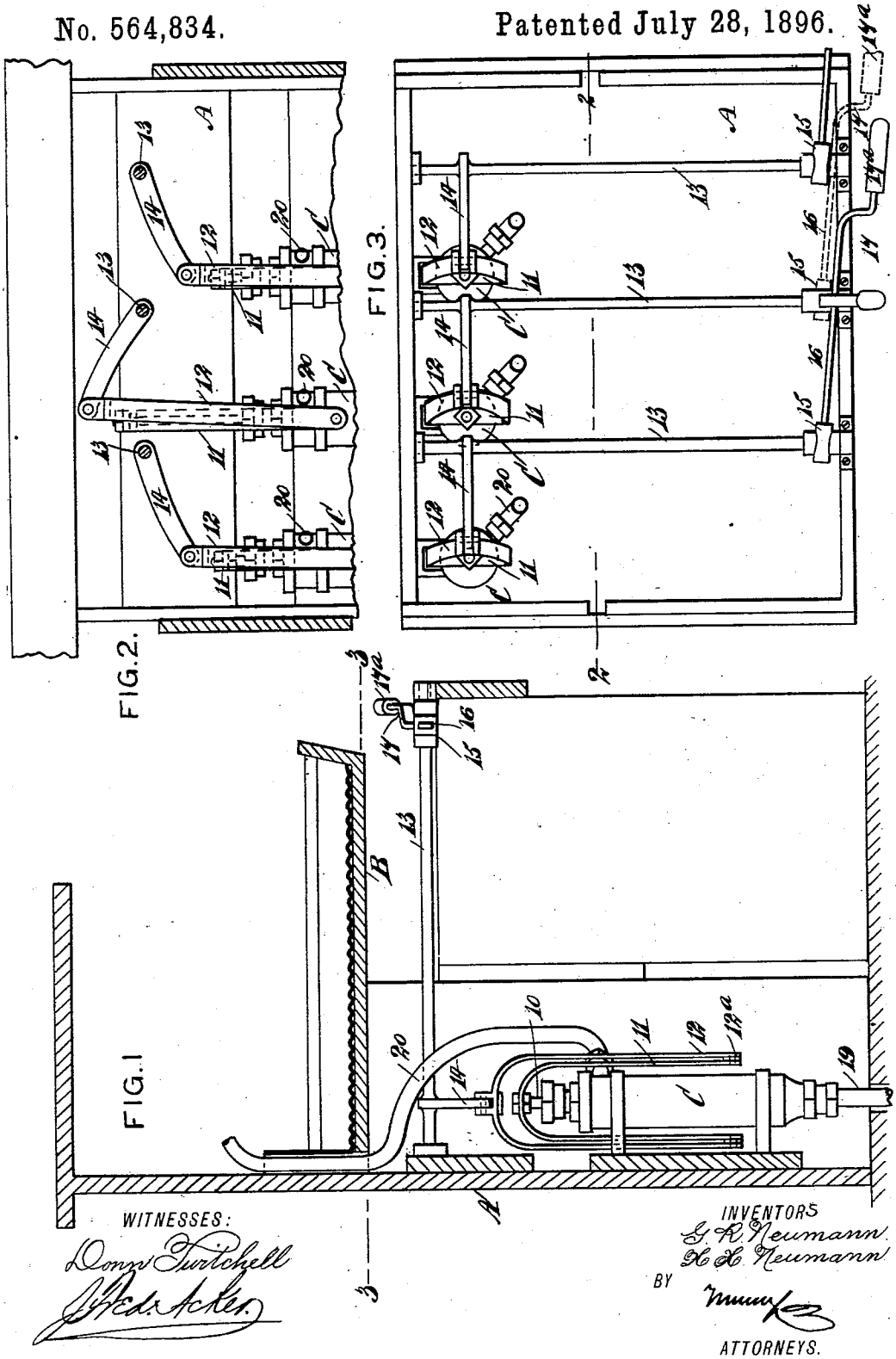
(No Model.)

G. R. & H. H. NEUMANN.

ALE PUMP.

No. 564,834. Patented July 28, 1896.



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UNITED STATES PATENT OFFICE.

GEORGE R. NEUMANN AND HERMANN H. NEUMANN, OF NEW YORK, N. Y.

ALE-PUMP.

SPECIFICATION forming part of Letters Patent No. 564,834, dated July 28, 1896.

Application filed January 22, 1896. Serial No. 576,462. (No model.)

To all whom it may concern:

Be it known that we, GEORGE R. NEUMANN and HERMANN H. NEUMANN, of New York city, in the county and State of New York, have invented a new and useful Improvement in Ale-Pumps, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in pumps, especially to an improvement in ale-pumps, or pumps of that character, the object of the invention being to so connect a lever or like operating device with the piston of the pump that the pump may be placed in any desired position or at any angle and the piston-rod be operated without binding in the cylinder of the pump no matter in what position the lever or equivalent operative device that may be employed may be located.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

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 figures.

Figure 1 is a vertical section through a portion of a bar, illustrating the invention as applied to an ale-pump and the pump in position behind the bar. Fig. 2 is a vertical section through the fittings behind the bar, illustrating a series of pumps in side elevation; and Fig. 3 is a plan view of the series of pumps shown in Fig. 2.

In carrying out the invention the bar A is of any approved construction and may be of any desired height, and at the rear of the bar a tray B is represented as being suspended in a horizontal position. Below the aforesaid tray the improved pumps C are placed, being connected with any approved support. In the drawings the said pumps are shown as attached by straps to the vertical portion of the bar.

The pumps C are of the usual construction adapted for drawing ale and like liquids, and the piston-rod 10 extends a predetermined distance beyond the top of the pump. A yoke 11 is attached to the piston-rod, extending downward at each side of the pump, being adapted, no matter in what position the pump-casing may be, to move parallel with and also simultaneously with the aforesaid piston-rod. A second yoke or strap 12 is likewise employed, being longer than the strap or yoke 11 attached to the piston-rod and wider. The larger strap or yoke 12 is placed over the smaller one, as shown in Fig. 1, and the lower extremities of the two straps or yokes are connected by pivot-pins 12^a or their equivalents, so that the larger strap or yoke 12 may have swinging movement upon the smaller or inner one.

Adjacent to each pump a shaft 13 is preferably journaled in any suitable or approved manner, and one of said shafts 13 is connected with the upper portion of the outer yoke of each pump through the medium of a crank-arm 14, integral with or attached to the shaft. Each shaft is also provided at a predetermined point in its length with an inclined socket or sleeve 15, adapted to receive a manipulating rod or lever 16. These rods or levers are secured at one of their ends in the sockets or sleeves 15, and extend outward at more or less of an acute angle to the shaft with which they are connected. The levers 16, when the pumps are not in operation, are adapted to lie parallel with one another, being in a horizontal position, as shown in Fig. 2, and the outer end of each lever 16 is bent outward horizontally at an angle to the body, forming a central outwardly-extending section 17, and each of these sections is connected with a straight end section, to which a handle 17^a is secured. Under this construction, as shown in Fig. 3, when all of the levers are in a horizontal position the handle of one lever will be substantially in alinement with the handle of an adjacent lever, yet each lever may be manipulated without interfering one with the other.

Ordinarily the pumps C are so placed as to be concealed behind the bar and may be arranged close to the bar, and the handles of the manipulating bars or levers 16 are at the inner side of the trays B or other partitions or inward extensions of the fixtures. Each pump is connected by a tube 19 with a source of liquid supply in the usual way, and an outlet-pipe 20 is also employed to discharge the liquid whenever desired.

It is obvious that under the foregoing construction, no matter in what position the pumps may be or where placed, the lifting power being applied to the outer yoke or strap 12 will compel the inner strap or yoke to operate the piston-rod 10 without bringing the piston-rod in binding engagement with the pump-cylinder; and it is furthermore immaterial at what angle the manipulating device for the piston-rod may be placed to the same. Furthermore, under the construction of the pump illustrated, the pump may be placed conveniently in locations that would not admit of the operation of the ordinary form of ale-pump or pump of that character.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a pump, the combination with the piston-rod, of an inverted-U yoke, rigidly connected with it, a second, similar, but larger yoke embracing the other, and their ends pivoted together, and lever mechanism flexibly connected with such larger yoke, for reciprocating the piston-rod, as shown and described.

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