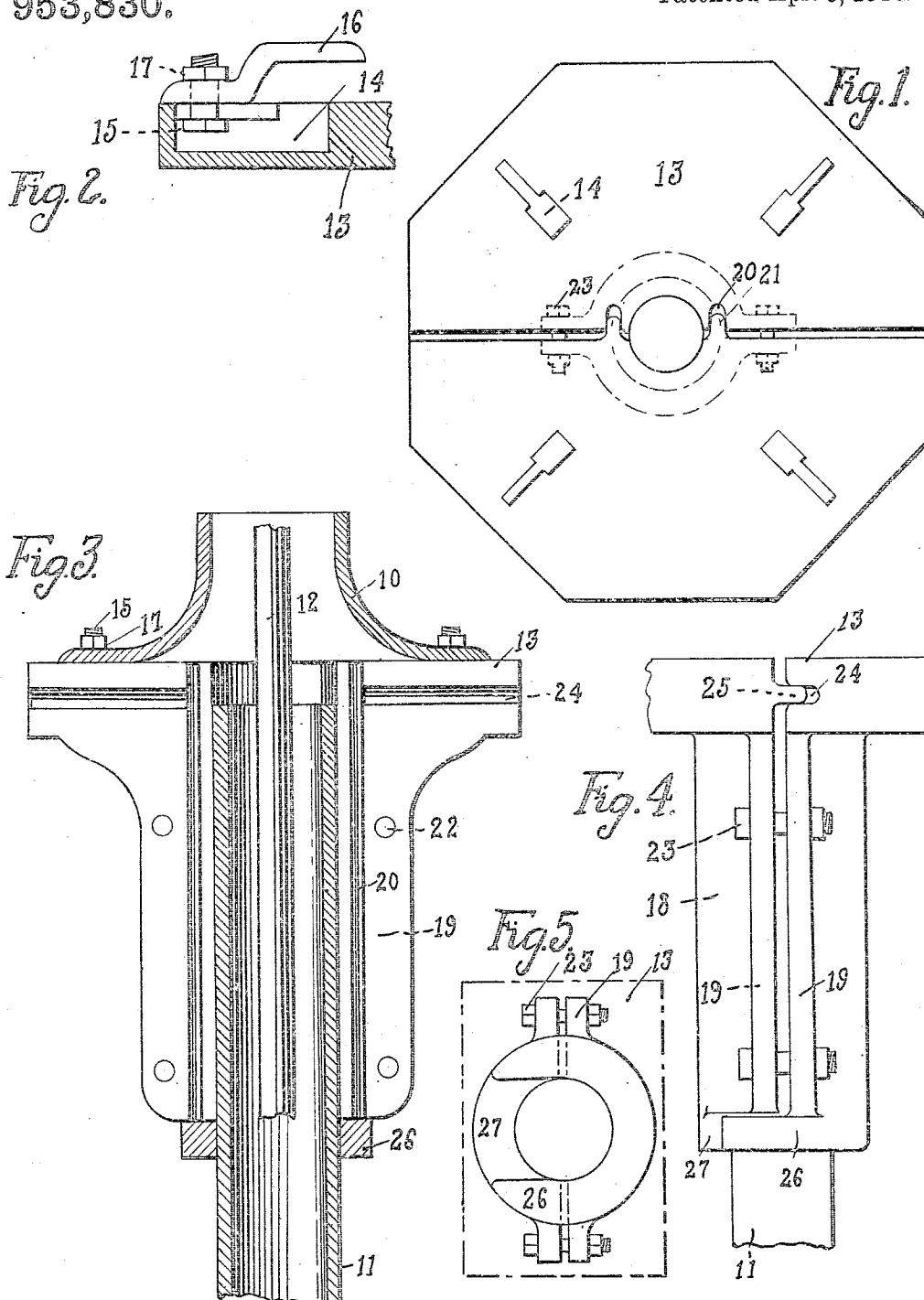


J. J. HESS.
PUMP STAND.
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Patented Apr. 5, 1910.

953,830.



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UNITED STATES PATENT OFFICE.

JOSEPH J. HESS, OF NORTH WASHINGTON, IOWA.

PUMP-STAND.

953,830.

Specification of Letters Patent.

Patented Apr. 5, 1910.

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To all whom it may concern:

Be it known that I, JOSEPH J. HESS, a citizen of the United States, residing at North Washington, in the county of Chickasaw and State of Iowa, have invented a certain new and useful Pump-Stand, of which the following is a specification.

The object of my invention is to provide a simple, durable and inexpensive device for the purpose of connecting a pump stock with a well tube or casing in such a manner as to firmly hold the pump stock in position and to completely and tightly cover the top of the well casing.

My invention consists in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a top or plan view of the pump stand embodying my invention. The dotted lines therein show the positions of the parts of the stand that encircle the top of the well casing. Fig. 2 shows an enlarged, detail sectional view illustrating the means for clamping a pump stock to the pump stand. Fig. 3 shows a vertical, central sectional view through the base of a pump stock and the upper portion of a well casing, with one part of my improved pump stand in position thereon. In said view, I have shown a modified form of device for connecting the pump stock with the stand. Fig. 4 shows a side elevation of a part of my improved pump stand and a portion of a well casing extending below it, and—Fig. 5 shows an inverted plan view of the improved pump stand.

Referring to the accompanying drawings, I have used the reference numeral 10 to indicate the base of a pump stock of ordinary construction, and 11 to indicate the upper portion of a well casing such as is usually employed in connection with drilled wells. 12 indicates a discharge pipe to be connected with the pump. All of these parts are of the ordinary kind and form no part of my invention.

My improved pump stand is formed complete of two cast metal parts. One of said parts is formed of a substantially semi-circular top plate 13 having two or more recesses 14 open at the top surface of the plate 13, and said open portions being wide at one

end and narrow at the other, as shown in Fig. 1. The wide portion is for the purpose of receiving a bolt head 15 which may then be moved outwardly to the narrow portion of the slot with the bolt projecting up above the plate 13. A clamping bar 16 is provided with a bolt hole and placed on the bolt and then a nut 17 is placed on the bolt to engage the clamping bar. The inner end of the clamping bar is designed to project over the bottom of a pump stock and in this way a pump may be firmly and securely held to the plate 13 and by means of the radial adjustment provided for the bolt, it may be made to fit pump stocks of different diameters. In the modified form of this part of the invention, shown in Fig. 3, the clamping bars 16 are dispensed with and the bolt is extended through openings in the pump stock.

Below the plate 13 is a semi-cylindrical body portion 18 having at its edges the outwardly projecting flanges 19. In said flanges 19, I provide on one of the cylindrical body portions, two vertical grooves 20 extending from the top of the plate 13 to the bottom of the flange 19, one on each of said flanges and spaced apart from the interior of the cylindrical body portion, as clearly shown in Fig. 3. On the other one of said body portions 18, I have provided two vertical ribs 21 shaped to fit into the grooves 20, as clearly shown in Fig. 1, and to thereby provide a tight joint even though the ribs 19 of the two body portions are spaced apart. In each of said ribs 19 are bolt holes 22 to receive bolts 23 for clamping the two body portions together.

In the straight edges of the base plates 13, I have provided two horizontally arranged grooves 24 in one of the plates 13 and co-acting ribs 25 in the other one, said ribs being designed to enter the grooves 24, as shown in Fig. 4. Said grooves and ribs extend from the grooves 20 to the outer ends of the plates 13, as shown in Fig. 3. These grooves and ribs 24 and 25 serve two functions: first, they form tight joints between the plates 13 and thus prevent the entrance of dust or insects into the space between the body portions 18 from above the plates, and they also serve to hold the plates 13 flush with each other so that the pump will stand in an upright position on said plates. The grooves and ribs 20 and 21 also serve the purpose of making a tight connection between the parts and of preventing lateral

movement of the body portions 18 relative to each other.

At the lower ends of the body portions 18, I have provided on one of them a substantially circular rim 26 having in one side, a slot large enough to admit the well tube 11, as clearly shown in Fig. 5, and in the other one of said body portions, I have provided, at the lower end, a segmental rim 27 designed to enter and fit into the slot in the rim 26. In this way, I provide additional protection against lateral movement of the body portions 18 relative to each other.

In practical use, I place the two parts of the pump stand on opposite sides of the upper end of the well casing, and then insert the bolts 23 and draw the parts tightly together by means of said bolts to firmly clamp said parts to the top of the well casing. Then the pump is placed on the top of the plates 13 and connected by bolts in the manner described. It is obvious that by the arrangement of the ribs and grooves and by the parts 26 and 27, the two portions of the pump stand are immovably held relative to each other so that the top of the pump stand will always present a smooth, flat surface to support the pump in a vertical position. Furthermore, the upper end of the well casing is protected against the entrance of dust or of insects on account of the tight connections made by said parts.

I claim as my invention.

1. An improved pump stand, formed of two parts, each comprising a substantially semi-circular plate and a semi-cylindrical body portion having flanges at its sides, the

adjacent edges of said top plates being provided with co-acting ribs and grooves, and the adjacent portions of said flanges being also provided with co-acting ribs and grooves.

2. An improved pump stand, formed of two parts, each comprising a substantially semi-circular plate and a semi-cylindrical body portion having flanges at its sides, the adjacent edges of said top plates being provided with co-acting ribs and grooves, and the adjacent portions of said flanges being also provided with co-acting ribs and grooves, the lower end of one of said cylindrical body portions being provided with a circular rim slotted at one side, and the other one being provided with a segmental rim designed to fit into said slot.

3. An improved pump stand, formed of two parts, each comprising a substantially semi-circular plate and a semi-cylindrical body portion having flanges at its sides, the adjacent edges of said top plates being provided with co-acting ribs and grooves, and the adjacent portions of said flanges being also provided with co-acting ribs and grooves, said plates at the tops of the device being each provided with bolt recesses and with slots at the tops of said bolt recesses widest at one end, headed bolts in said recesses, and clamping bars having said bolts extended through them.

Des Moines, Iowa, April 24, 1909.

JOSEPH J. HESS.

Witnesses:

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