

No. 89,918.

PATENTED MAY 11, 1869.

J. W. COLE.
PUMP.

Fig. 1.

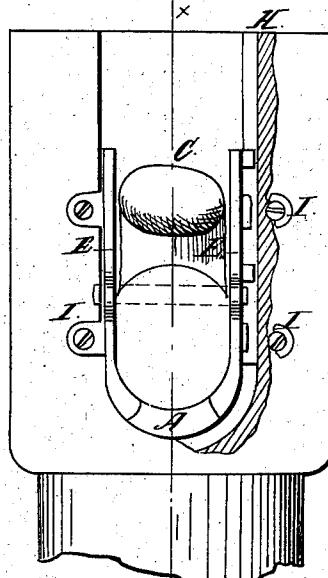
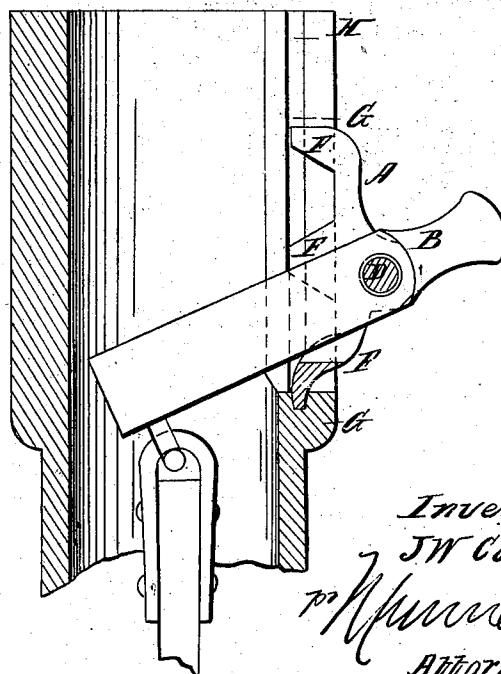


Fig. 2.



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J. W. COLE, OF MOUNT PLEASANT, IOWA.

Letters Patent No. 89,918, dated May 11, 1869.

IMPROVEMENT IN PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, J. W. COLE, of Mount Pleasant, in the county of Henry, and State of Iowa, have invented a new and improved Pump-Handle Bracket; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in metallic brackets, on which the handles of wood pumps are pivoted, whereby it is designed to provide a bracket, which may be more permanently secured to the stock, and which will admit of more freedom of action for the handle, than those now in use.

In the accompanying drawings—

Figure 1 represents an elevation of the top of a wood pump-stock, with my improved bracket attached, a part of the stock being broken away; and

Figure 2 represents a sectional elevation of the same, taken on the line $x x$ of fig. 1.

A, in the drawings, represents a metallic bracket, to be secured to the side of the upper end of a wood pump-stock, for the purpose of affording a bearing for the axis of the handle B, the said pump-stock being provided with a slot, C, through which the handle projects, and into which some parts of the bracket are fitted, for the better securing of the same to the stock.

According to my improvements, I construct the bracket open at the top, and extend it, at the parts for supporting the axis D, sufficiently in an outward direction from the vertical line, to admit of turning the handle down to nearly a perpendicular position, when pumping, without causing the handle to strike the said bracket either above or below the axial pin, whereby a greater length of stroke is admitted, by which a correspondingly-increased amount of water is raised, and admitting also of turning the handle down out of the way, when the pump is not used, to protect it from breakage, or from splitting the pump-stock, which often occurs, especially to pumps located in stock-yards.

I provide the side portions E of the said brackets also with extensions, F, projecting into the slot C of the pump-stock, to about the centre of the wall of the same, or further, if desired, where they terminate in right-angled flanges G, taking into a groove, H, cut into the wall of the slot C, all around the same.

And projecting from the said side-pieces E, parallel with the right-angled flanges G, I arrange the ears I, having countersunk holes for the insertion of wood-screws, for screwing the said ears against the outer surface of the pump-stock.

In cutting the groove H, care is taken to make it at a distance from the outer face of the pump-stock, equal to the distance apart of the ears I and the flanges G.

It will be observed that a flange, G, is also formed on the curved bottom of the bracket, fitting into the curved groove at the bottom of the slot C of the pump-stock.

I am aware that metallic pump-handle brackets, provided with ears I, to secure them to the outer face of the pump-stock, and open at the top, have been made, the said ears being curved, to fit the curvatures of round stocks, but these are objectionable in the respect that they do not afford sufficient means for securing them to the stocks, the screws soon working loose under the exposure of the stocks to the alternate wet and dry conditions.

Moreover, the stocks must be accurately turned to the curvature of the said brackets, or they will not fit, forbidding the variations frequently necessary in the sizes of the stocks, without the employment of brackets having corresponding variations of curvature.

I am also aware that metallic brackets have been formed with the flanges G to take into grooves H, but closed at the top, and so formed that the movement of the pump-handle is limited, and prevented from being moved down to the perpendicular position, by reason of being so closed at the top, and without the outside parallel ears I, for the purpose of serving, in conjunction with flanges G, to afford a means of more permanently securing them to the stocks.

It will be observed that my improved brackets may be secured to stocks of any size, one size of bracket only being required for all sizes of stocks.

It will also be observed that a square stock, having the same measurement in cross-section, affords a greater amount of substance than a circular one, and hence a more permanent support for the screws and flanges of the bracket.

It will also be observed that I may, if preferred, arrange the ears I to fit curved stocks.

I claim as new, and desire to secure by Letters Patent—

A metallic pump-bracket, held in place by lateral flanges, embracing an outer portion of the pump-stock, the inner flanges being fixed in a groove, the bottom part of said bracket converging upon the base of the slot, the pump-bracket pivoted upon bearings projecting about centrally from the bracket, all arranged so as to permit the full sweep of the handle, from a vertical position, when the piston is elevated to an acute angle in the reverse position.

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