J. S. GENDRON.

PIPE, DRILL ROD, AND CASING PULLER.

APPLICATION FILED DEC. 26, 1917.

1,287,956. Patented Dec. 17, 1918.

Fig. 1.

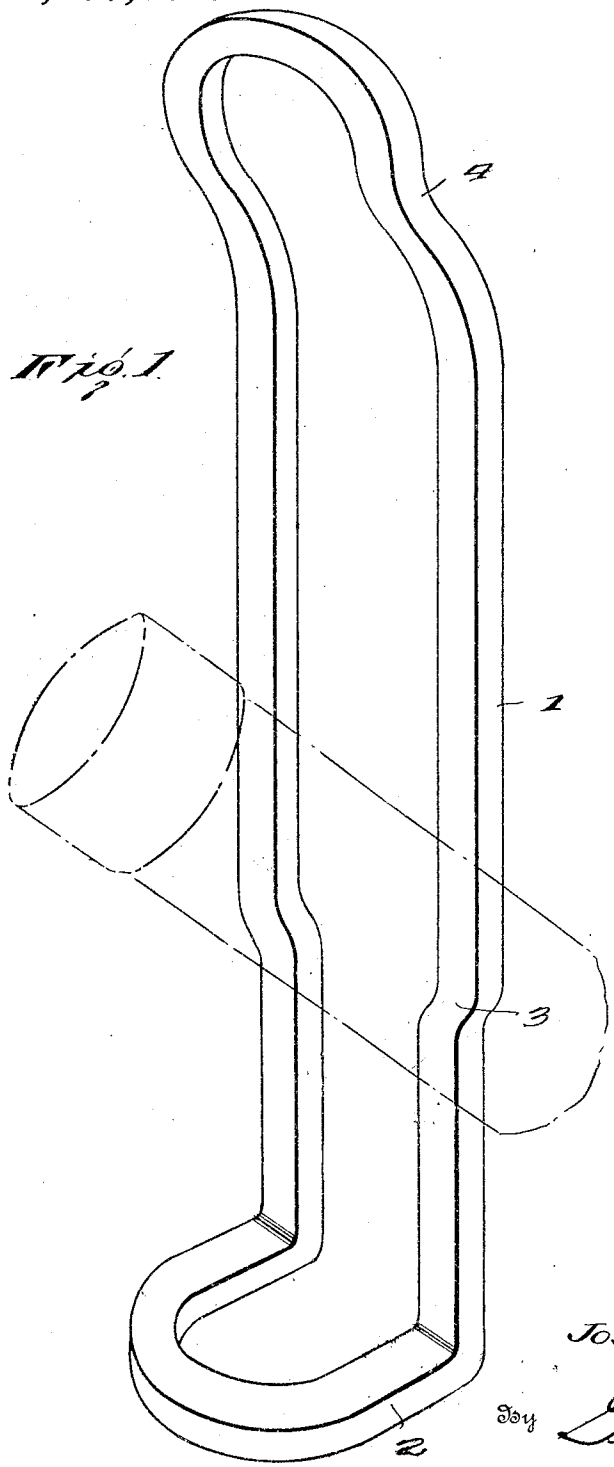
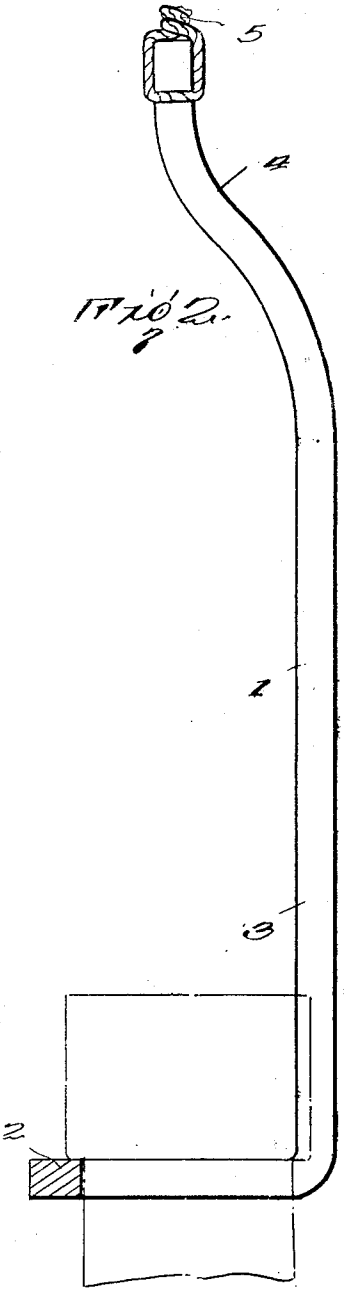


Fig. 2.



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PIPE, DRILL-ROD, AND CASING PULLER.

1,287,956. Specification of Letters Patent. Patented Dec. 17, 1918.

Application filed December 26, 1917. Serial No. 208,891.

To all whom it may concern:

Be it known that I, JOSEPH SAUL GENDRON, a citizen of the United States, residing at Loma, in Cavalier county, State of North Dakota, have invented a new Pipe, Drill-Rod, and Casing Puller, of which the following is a specification.

This invention relates to improvements in well drilling appliances and it is the principal object of the invention to provide a novel form of pipe, drill rod and casing puller or extractor, capable of being easily and quickly engaged with sections of pipes, drill rods or casings for permitting the lifting or extracting of the same from the bore and for allowing the same to be freely rotated in order that the couplings of other sections which may be engaged therewith and be disengaged therefrom.

Another and equally important object of the invention is to provide a device of the character mentioned which when engaged with an object will have the line of pull directed to the center of said object and as a consequence, materially facilitate the removal thereof.

Other objects will be in part obvious and in part pointed out hereinafter.

The improvements in the details and arrangement of parts will be apparent from an inspection of the accompanying drawings, in connection with the specific description hereinafter contained, and wherein the preferred embodiment of the invention is disclosed for the purpose of imparting a full understanding of the same.

In the drawings:

Figure 1 is a perspective of the improved device, and

Fig. 2 is a vertical section therethrough.

Having more particular reference to the drawings, in connection with which like reference characters will designate corresponding parts throughout the several views, 1 designates the improved device in its entirety, the same, obviously, being constructed from a single length of metal, preferably squared, bent to constitute a looped body, the lower end of which is reduced and bent laterally to form a segmental jaw 2, into which the coupling element of the pipe, drill rod or casing sections to be lifted thereby are passed; the lower marginal portion of said coupling element resting on the same. The spaced sides of the looped body are offset as at 3, preferably at points intermediate the upper and lower ends, and as will be noted, are spaced sufficiently to allow the coupling element, which is of a diameter greater than the diameter of the pipe, drill rod or casing engaged thereby to pass therethrough and in this way cause said coupling element to be loosely seated on said segmental jaw 2.

The upper end of the looped body 1 is off-set therefrom as at 4 and is arranged in vertical alinement with the center of the jaw 2. Hence, when a cable or like connection 5 is secured thereto and it is rendered taut to support the device, the resultant line of pull or draft will be accurately centered with respect to the center of the jaw 2 and the object engaged or resting thereon and to be lifted thereby.

From the foregoing, it will be appreciated by those skilled in the art that I have provided an exceedingly simple and efficient device for use in lifting, removing or extracting pipes, drill rods or casings from the bores of wells, the same by reason of its construction, being capable of being quickly and readily engaged with an object, thus, rendering it desirable for use as a picking tool also. Further, due to the manner in which the device is engaged with an object, said object can be freely rotated in the event that it is necessary to disengage or uncouple other sections therefrom.

As hereinbefore indicated, I do not wish to be understood as confining the invention to the particular embodiment chosen for illustration herein, nor to the exact construction, arrangement and adaptation of parts shown and described, but I reserve the right to make any changes and alterations that fairly fall within the spirit and scope of the invention.

I claim:

A device of the character described including an elongated looped body portion having the lower portion thereof constricted and formed with a right angularly disposed jaw and the upper portion thereof bent laterally and arranged in vertical alinement with the center of the jaw whereby to render the same in vertical alinement with the line of pull.

JOSEPH SAUL GENDRON.