(No Model.)

T. A. BURKELLOW.

OIL WELL BAILER.

No. 400,896. Patented Apr. 9, 1889.

Fig. 1.

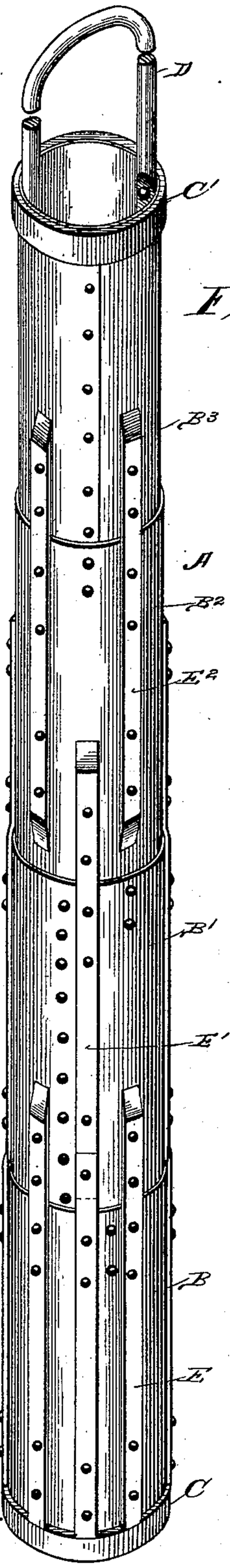
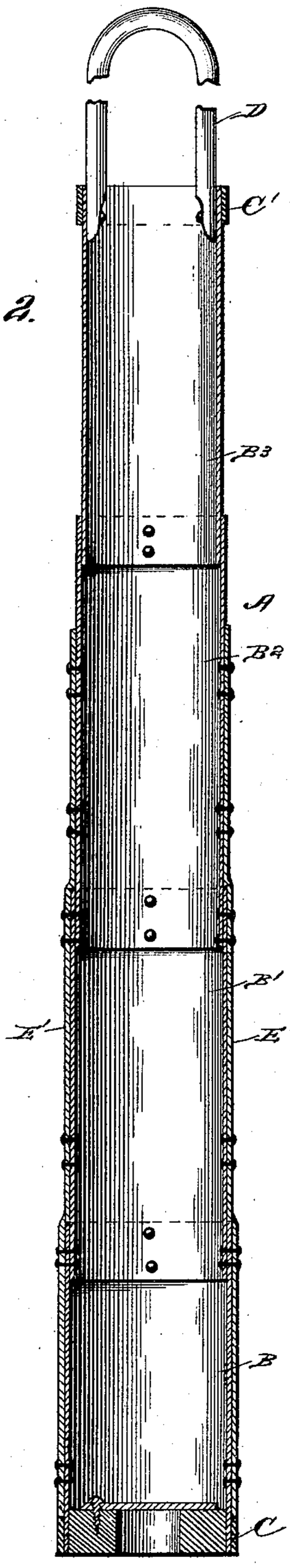


Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS A. BURKELLOW, OF WASHINGTON, PENNSYLVANIA.

OIL-WELL BAILER.

SPECIFICATION forming part of Letters Patent No. 400,896, dated April 9, 1889.

Application filed July 24, 1888. Serial No. 280,904. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. BURKELLOW, a citizen of the United States, residing at Washington, in the county of Washington and State of Pennsylvania, have invented new and useful Improvements in Oil-Well Bailers, of which the following is a specification.

My invention relates to an improvement in bailers for oil-wells; and it consists in the construction and arrangement of parts hereinafter described, and pointed out in the claim.

The object of my invention is to provide a bailer for oil-wells, or wells of small diameter, which will effectively stand the shocks and constant wear caused by its contacting with the sides of the well. I attain this object by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a perspective view of my improved bailer, and Fig. 2 is a vertical section of the same.

In the drawings, A represents the sides of a cylindrical bucket or bailer, which is composed of a series of sections of metal, B, B′, B^2, and B^3. The lower section, B, has its lower edge braced and secured to a thick outer metallic hoop or band, C. The lower edges of the sections B′, B^2, and B^3 are inserted, respectively, in the upper end of the preceding section, their edges being overlapped and rigidly secured together by rivets or otherwise. The upper edge of the upper section, B^3, has a brace, hoop, or band rigidly secured thereon. This hoop C′ is of a thickness corresponding to the thickness of the hoop C, and forms a shield or guard, as well as a brace, for the upper edge of the bailer.

D is the bail or handle, which is extended down on each side of the bailer and on the inside thereof, at which point it is rigidly secured, thus bringing the bail below the plane of the sides of the bailer.

To successfully brace the sides A and couple or firmly unite the several sections, and also to guard the side and protruding edges of the sections, I place a series of vertically-extending braces or guards, E, E′, and E^2, on the sides of the bailer. These brace-guards are constructed of narrow strips of hard metal, of a thickness equal to that of the hoops C and C′, and are riveted on said bailer. The guards E and E′ are placed a short distance apart, their lower ends abutting against the ring or hoop C, and their upper ends being carried up beyond the upper edge of the lower section a distance sufficient to admit of their being rigidly secured to the section B′. The upper ends of guards E′ are carried up beyond the lower edge of the section B^2, and are there riveted to said section, thus making a direct connection between the sections B, B′, and B^2. The brace-guards E^2, which unite the sections B^2 and B^3, are placed so as to extend from a point near the bottom of the section B^2 up to the bottom of the section B^3, at which points they are secured. The upper edges of the guards E, E′, and E^2 are beveled, and also the lower end of the guard E^2. This is to prevent their direct contact with obstructions. By this arrangement it will be seen that as the bailer is lowered in the well its sides will be protected from the sharp edges of projecting rock, and also from the constant contact of the sides of the well.

By placing a multiplicity of guards on the bottom section this portion is made more secure, and the wear coincident with this portion is in a measure entirely overcome.

It is evident that many minor changes in the construction and arrangement of my device can be made and substituted for those shown and described without in the least departing from the nature and principle of my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The bailer herein described, consisting of the cylindrical metallic sections B, B′, B^2, and B^3, fitting, respectively, in each other, the edges of the lower sections overlapping those of the upper sections, the thick metallic hoops C and C′ on the top and bottom edges of the bailer, and the series of vertically-arranged guards E, E′, and E^2, of a thickness equal to the thickness of the hoops, their upper ends being beveled and projecting beyond the overlapping edges of the sections, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

T. A. BURKELLOW.

Witnesses:
J. M. DICKSON,
J. S. WILLIAMS.