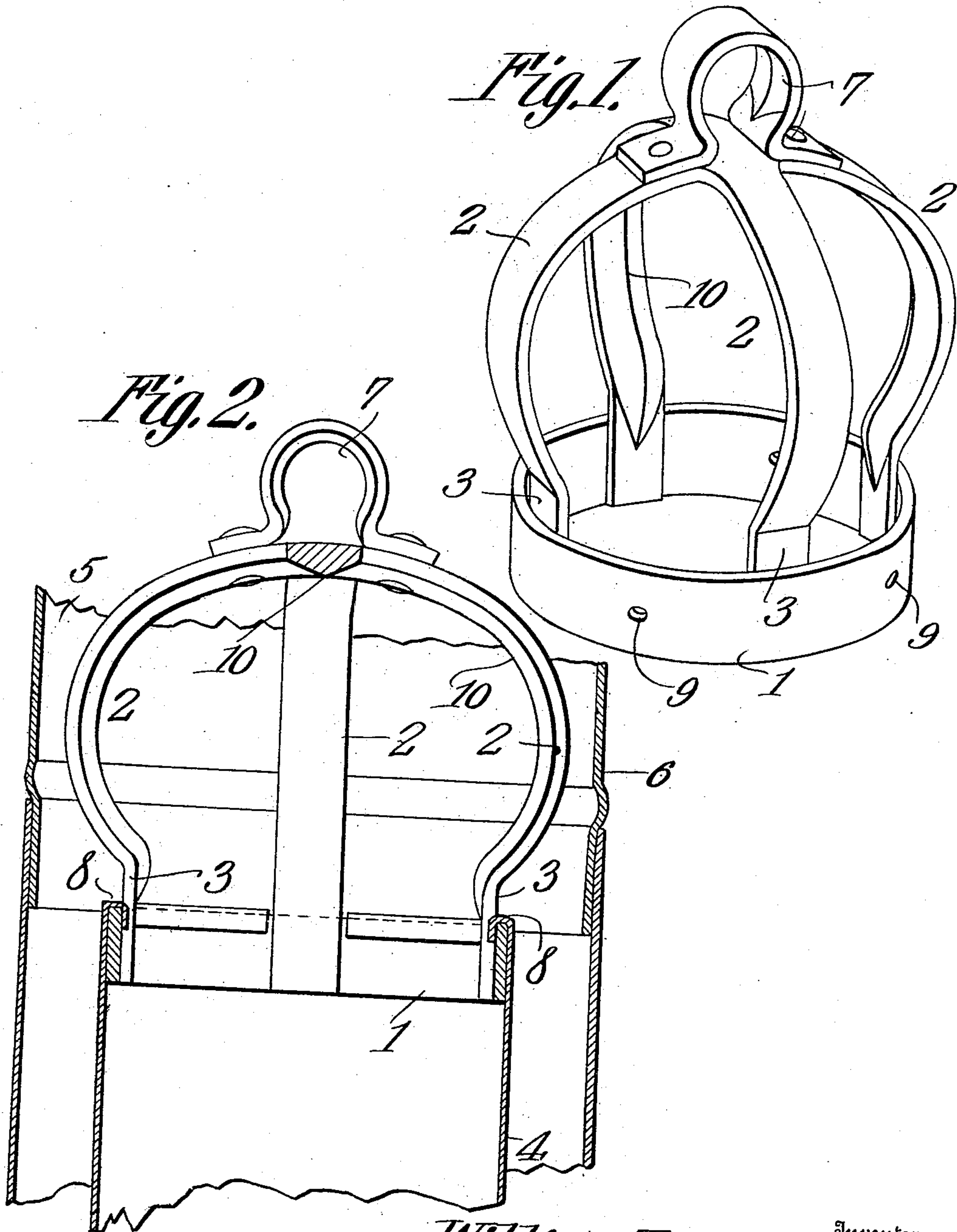


910,294.

W. T. LAUGHLIN.
WELL BUCKET HOLDER.
APPLICATION FILED MAY 4, 1908.

Patented Jan. 19, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM T. LAUGHLIN, OF CUSHING, OKLAHOMA.

WELL-BUCKET HOLDER.

No. 910,294.

Specification of Letters Patent.

Patented Jan. 19, 1909.

Application filed May 4, 1908. Serial No. 430,854.

To all whom it may concern:

Be it known that I, WILLIAM T. LAUGHLIN, a citizen of the United States, residing at Cushing, in the county of Payne and State of Oklahoma, have invented a new and useful Well-Bucket Holder, of which the following is a specification.

This invention relates to holders for well buckets; and has for its object to provide a simple, cheap and efficient means for fastening within the mouth of a well bucket to guide and protect the latter as it travels in a well from contact with the well tubing of the same.

In drilled wells, after a certain amount of drilling has been done it becomes necessary to remove the products of the operation, which are generally in a soft or semi-fluid condition, before further operation can be continued. This material is removed by means of a bucket which, attached to a rope, is dropped into the well and when filled with the semi-fluid substance, consisting of water mixed with the finely powdered material produced by drilling, is drawn up and emptied. As the drilling proceeds a casing of galvanized iron is introduced into the hole for a lining, said casing comprising comparatively short sections of pipe connected in a manner similar to the sections of a stove pipe, that is to say, telescoping the end of one pipe into the end of another. The buckets commonly used, which are of metal and are of less diameter than the casing, give continual trouble by catching the joints of the casing, and tearing it to a greater or lesser degree until in a short time a new casing must be inserted in the well.

To avoid the destruction of the casing above described is the object of the present invention, and for this purpose a band of proper diameter is provided which fits snugly within the mouth of the metal bucket and there held by turning the upper edge of the bucket over the top of said band, riveting the bucket to the band, or both turning over the edge and riveting. Attached to the band and extending above the same are a suitable number of arms each curving outwardly a suitable distance beyond the side of the bucket and then curve inwardly and unite above the band in the axis thereof. A ring of any type is riveted to the arms where they join for the attachment of a rope. The curved arms,

as the bucket is raised and lowered, prevent the bucket from striking the casing and thus protect the latter from injury.

The bucket holder may be made of cast or malleable iron, cast steel or merchant steel and made in a single piece or of several pieces shaped and riveted or welded together.

To more clearly set forth the invention, attention is directed to the following detailed description and the appended claims, and to the accompanying drawings forming a part of this specification in which—

Figure 1 is a perspective view of the bucket holder complete, and Fig. 2 a vertical sectional view through the bucket holder with the bucket attached thereto.

Similar reference numerals are used for the same parts in all the figures.

In the drawings, 1 indicates a circular band of suitable thickness and width and of an exterior diameter to fit snugly within the mouth of a well bucket. Two or more arms 2, four being shown in the drawing, are connected to said band by riveting or otherwise at equal distances apart and extend upwardly at 3 a short distance above the top edge of band and perpendicular to it from whence they curve outwardly and upwardly and then inwardly to the axial line of the band where they unite if of unitary structure or are fastened securely together by rivets or other means if made of two or more pieces. The arms 2 are bowed outwardly a greater or lesser distance beyond the band 1 so as to bring their sides almost in contact with the casing of the well to prevent the abrupt edge of the bucket 4 striking the casing 5 when raised and lowered and cause injury to the telescoped ends 6 of said casing sections. The smooth curved sides of the arms 2 pass the casing joints without affecting them. Riveted on the upper side of the arms 2 where they join, is a loop or eye 7 of any approved form in which the rope for raising and lowering the bucket is fastened.

The connection between the bucket 4 and the ring 2 is made by bending the upper edge 8 of the bucket over the top of the ring as shown, by means of rivets or bolts passing through the side of the bucket near the top and through holes 9 in the band, or both means may be employed if desired.

The curved portions of the arms 2 are preferably thicker in the center as shown at 10, Fig. 2 to prevent them bending or break-

ing under the weight of the load in the bucket.

What is claimed is:—

- 5 1. A well bucket holder comprising a band adapted to fit within the top of the bucket and be fastened thereto and having upwardly extending arms connected together above the band and bowed outwardly beyond the periphery of said ring.
- 10 2. A well bucket holder comprising a circular band, arms equally spaced around said band and bowed outwardly beyond the periphery of said band and extending inwardly above the same uniting in the axial line of
15 said band, and means fastened to said arms for raising and lowering the same.
3. A well bucket holder comprising a circular band from which extend upwardly a plurality of equally spaced arms bowed out-
20 wardly beyond said band and united in the

axial line thereof above the same and an eye fastened to said arms at their junction combined with a well bucket fitting snugly over said band and secured thereto.

4. A well bucket holder comprising a cir- 25
cular band from which extend upwardly a plurality of equally spaced arms bowed outwardly beyond said band and united in the axial line thereof combined with a well
bucket fitting snugly over said band and se- 30
cured thereto by bending the upper edge of said bucket over the edge of the band.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM T. LAUGHLIN.

Witnesses:

CHARLES GIBSON,
JOHN CALVERT.