

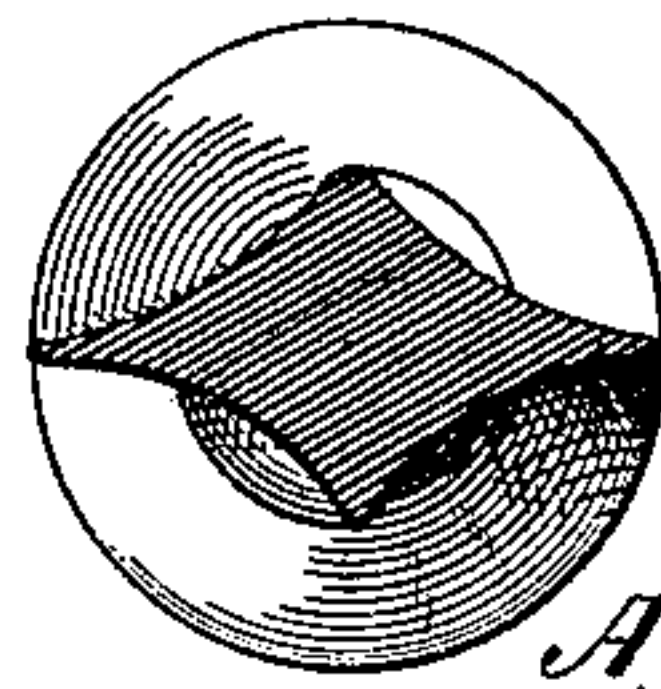
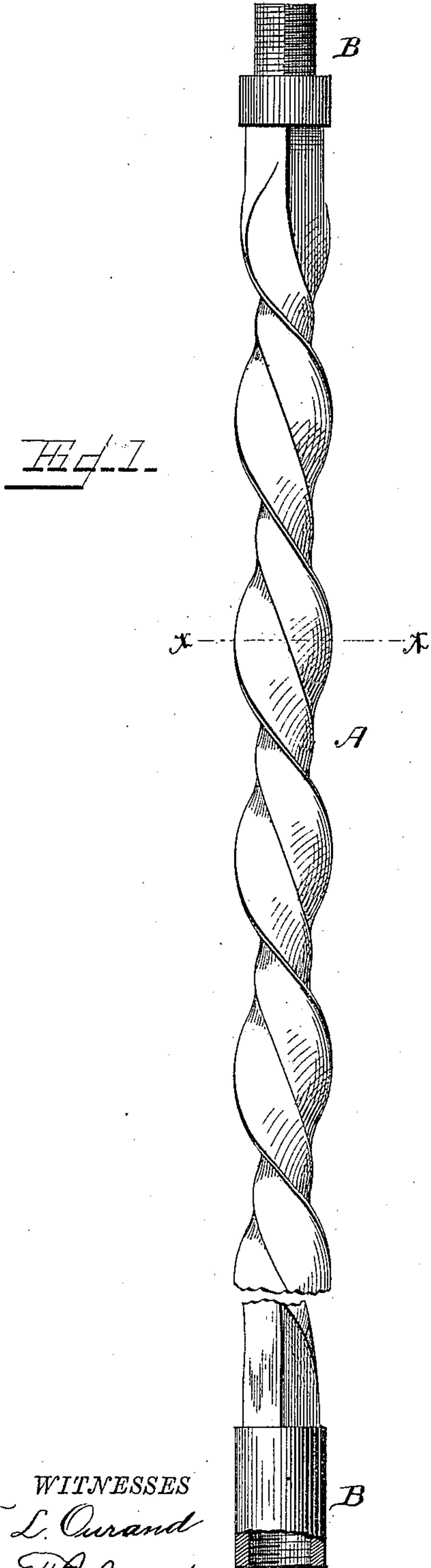
(No Model.)

R. H. BLACK.

SUCKER ROD.

No. 308,233.

Patented Nov. 18, 1884.



WITNESSES
F. L. Curand
E. W. Johnson

Robert H. Black
INVENTOR
E. W. Johnson
Attorney

UNITED STATES PATENT OFFICE.

ROBERT H. BLACK, OF VAN WERT, OHIO.

SUCKER-ROD.

SPECIFICATION forming part of Letters Patent No. 308,233, dated November 18, 1884.

Application filed June 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. BLACK, a citizen of the United States of America, residing at Van Wert, in the county of Van Wert and State of Ohio, have invented certain new and useful Improvements in Sucker-Rods for Oil and other Wells; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in sucker-rods for oil and other wells, the object of the same being to provide a rod of increased rigidity without adding to the weight of the same; and to this end my invention consists in constructing the rod of a bar of metal which is of greater length transversely in one direction than in the other, and in twisting the same, as will be hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a side view. Fig. 2 is a transverse section.

A represents a rod of metal, which is provided at its ends with couplings B B, which

are rigidly attached to the main portion A of the rod. The main portion of the rod A is made from a diamond-shape bar of metal, though other shapes—as half-round, flat, or rectangular—may be employed. The main portion of the rod between the couplings B B is twisted, so that the body portion will assume a spiral, as shown, and thus give to the rod great rigidity and prevent the same bending in the pump-stock.

This device is specially adapted for deep wells and where it is necessary to employ long sections.

I claim—

The improved sucker-rod herein described, having a body portion composed of a bar of metal which is of greater width in one direction than another, said body portion being bent spirally throughout its whole length, substantially as shown, and for the purpose set forth.

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

ROBERT H. BLACK.

Witnesses:

J. Q. BROWDER,
T. B. LAGETT.