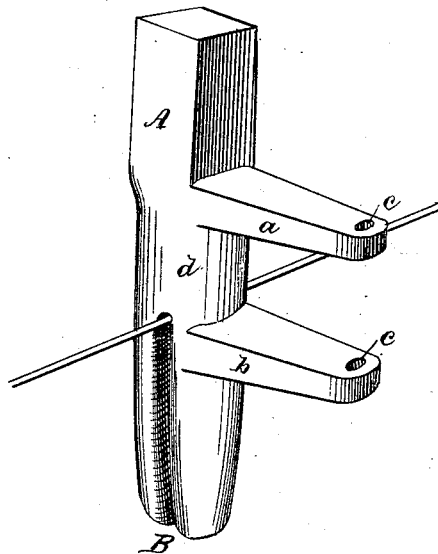


D. A. SMITH.
Wire-Stretcher.

No. 196,392.

Patented Oct. 23, 1877.



WITNESSES:

Francis McArdle,
J. H. Scarborough.

INVENTOR:

D. A. Smith.

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DANIEL A. SMITH, OF MARAK, KANSAS.

IMPROVEMENT IN WIRE-STRETCHERS.

Specification forming part of Letters Patent No. **196,392**, dated October 23, 1877; application filed May 12, 1877.

To all whom it may concern:

Be it known that I, DANIEL A. SMITH, of Marak, in the county of Brown and State of Kansas, have invented a new and Improved Wire-Tightener, of which the following is a specification:

My invention relates to tighteners for giving tension to the wires of fences; and it consists of a forked casting having a squared upper end for receiving a wrench, and perforated ears for receiving a nail that prevents the wire from unwinding after being tightened.

In the drawing, A is a casting that is squared at its upper end, and in which a slot, B, is made, that extends nearly to the center of the casting.

Ears *a b* project from the side of the casting, and are provided with holes *c*, for receiving a nail or piece of wire. The ear *b* is placed a small distance below the upper end of the slot, so that the wire to be tightened, when placed in the upper end of the said slot, may be wound around the cylindrical part *d* of the casting between the ears *a b*.

The manner of using my improved tight-

ener is as follows: The wire is received by the slot B, and a wrench is placed upon the squared portion of the casting, and the tightener is turned, winding the wire from both directions around the part *d* until it is sufficiently taut, when a nail is placed in the holes *c*, which prevents the wire from unwinding.

I am aware that wire-tighteners have been heretofore made with a bottom slot at one end, a ring at the other, and two wings on opposite sides with hooked ends; also, that a wire-stretcher has been used consisting of two disks connected by a wire catch and operated by a wrench-handle; but

What I claim is—

A cast-iron wire-tightener consisting of a straight piece having one end squared, the other slotted, and the intermediate part round, two parallel end-perforated arms being made to project from the same side, as shown and described.

DANIEL ALONZO SMITH.

Witnesses:

CHARLEY E. McCORMICK,
S. M. WEAVER.