

J. RENNIE.
 JACK SPOOL STAND.
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1,069,183.

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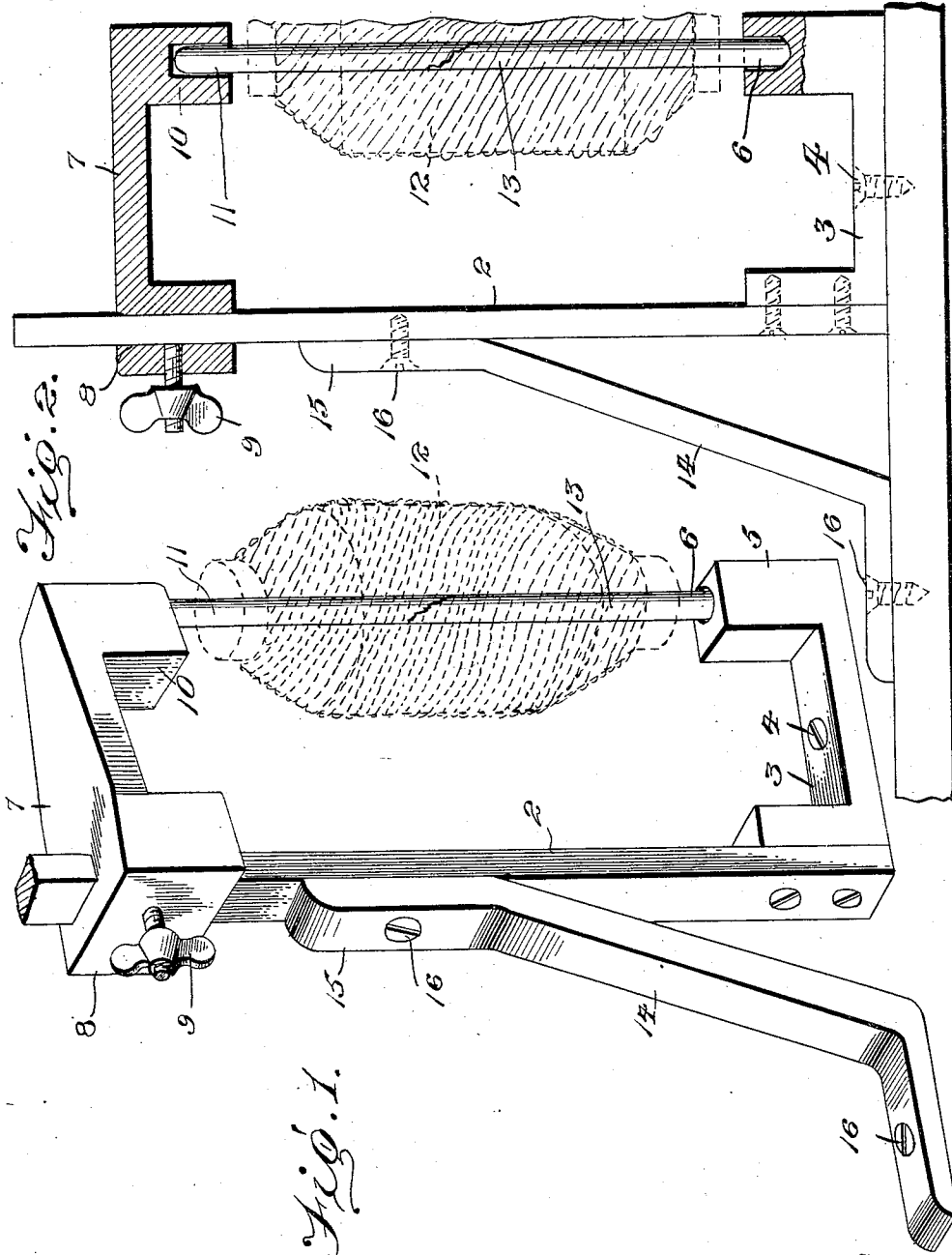


Fig. 2.

Fig. 1.

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UNITED STATES PATENT OFFICE.

JAMES RENNIE, OF ANDOVER, MASSACHUSETTS.

JACK-SPOOL STAND.

1,069,183.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES RENNIE, subject of the King of England, residing at Andover, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Jack-Spool Stands, of which the following is a specification.

The object of my invention is to provide means for supporting a broken jack spool so that the yarn thereon may be respooled onto another spool without any loss of yarn.

Heretofore when a jack spool has been broken, it has been customary to drive arbors in the ends of each section or piece of the jack spool and then wind the yarn off separately from each of the broken sections. As the yarn on the spool is about ten inches in diameter when the spool is full, and as there is nothing to hold the yarn on the broken parts of the jack spool, a good deal of the yarn falls off and goes to waste. There is liable to be a loss of from two to six pounds of yarn by this method of respooling, and as each pound is worth from \$1.00 to \$1.50, the loss is quite considerable. My jack spool holder or stand is intended to obviate this difficulty by providing the stand in which the broken spool may be mounted and which will support both sections of the spool so that the yarn may be drawn off therefrom and respooled without any such loss.

My invention is illustrated in the accompanying drawings wherein:

Figure 1 is a perspective view of my improved jack spool stand. Fig. 2 is a side elevation of the same, the upper arm being in section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawings, 2 designates a standard which may be made of any suitable material but which is preferably metal and having a base 3 projecting out at right angles thereto, said base being formed with an opening 4 for a lag screw. The base at its end has an upstanding portion 5 formed with a socket 6 for the spindle or arbor of the lower end of a spool.

Shiftably mounted upon the standard 2

is an arm 7 whose inner end is enlarged and formed with a slot or perforation 8 through which the standard 2 passes. This arm is adjustably mounted upon the standard 2 so that it may be raised and lowered and is held in any adjusted position by means of an adjusting screw 9. The outer end of the arm is formed with a downwardly extending portion 10 provided with a socket 11 for the upper end of the arbor or spindle of the spool. The yarn is indicated in Fig. 1 by the ordinal 12 and the spindle or arbor upon which the yarn is wound is designated 13. The standard 2 is supported in a vertical position in any suitable manner but as illustrated, it is supported by means of a brace 14 having an angular terminal end 15 and an angular lower terminal end 16. The upper end of the brace is attached to the standard 2 by means of screws 16 or in any other suitable manner, while the other end of the brace is intended to be attached to any suitable base by means of a screw 19.

In operation, one end of the broken jack spool is set in the socket 6 of the base 3 and the arm 7 is adjusted downward until the upper end of the arbor or spindle of the spool projects into the socket 11. The arm or cap 7 is then held in place by means of the screw 9. Yarn can now be wound onto another jack spool without loss inasmuch as the weight of the yarn and the weight of the spool tends to hold the broken sections in place upon each other. The yarn may be wound off precisely as if the spool were not broken.

I have tried this jack stand in the manner above indicated and find it thoroughly effective in practice and that it saves, as before stated, anywhere from two to six pounds of yarn on each spool rewind.

While I have illustrated a form of my invention which I have found to be thoroughly effective in practice and entirely simple in operation, I do not wish to be limited thereto as it is obvious that many changes might be made without departing from the spirit of the invention.

What I claim is:

A stand for supporting broken jack spools including a base, a standard, a lower spindle supporting member having a socket closed at its lower end and adapted to receive the

lower end of the jack spool spindle, and an upper spindle supporting member mounted upon the standard and having a socket closed at its lower end and adapted to receive the upper end of the jack spool spindle, said sockets being each of such depth as to prevent relative movement between the broken parts of the jack spool spindle, said spindle supporting members being relatively adjustable toward or from each other. 10

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

JAMES RENNIE. [L. S.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."