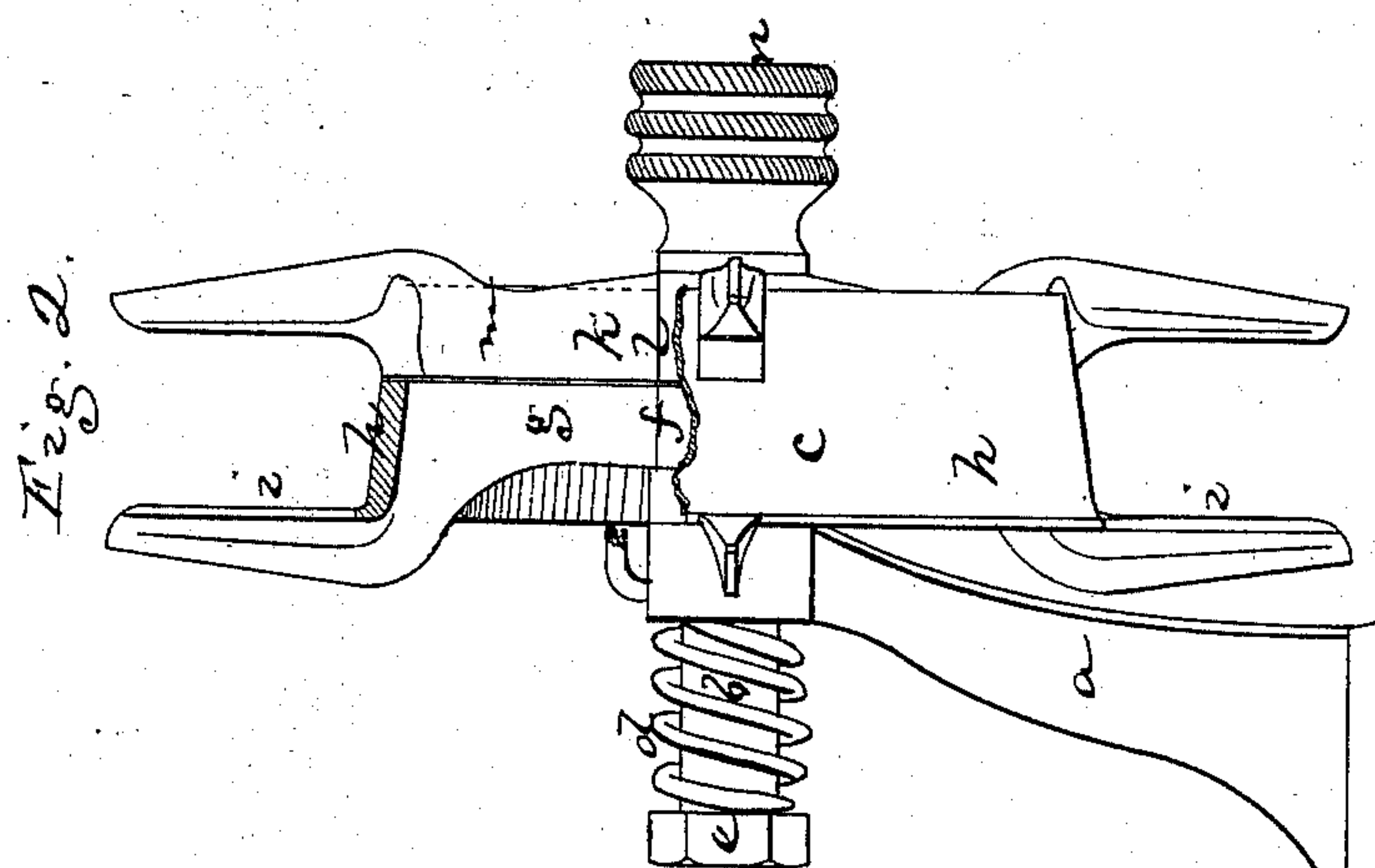
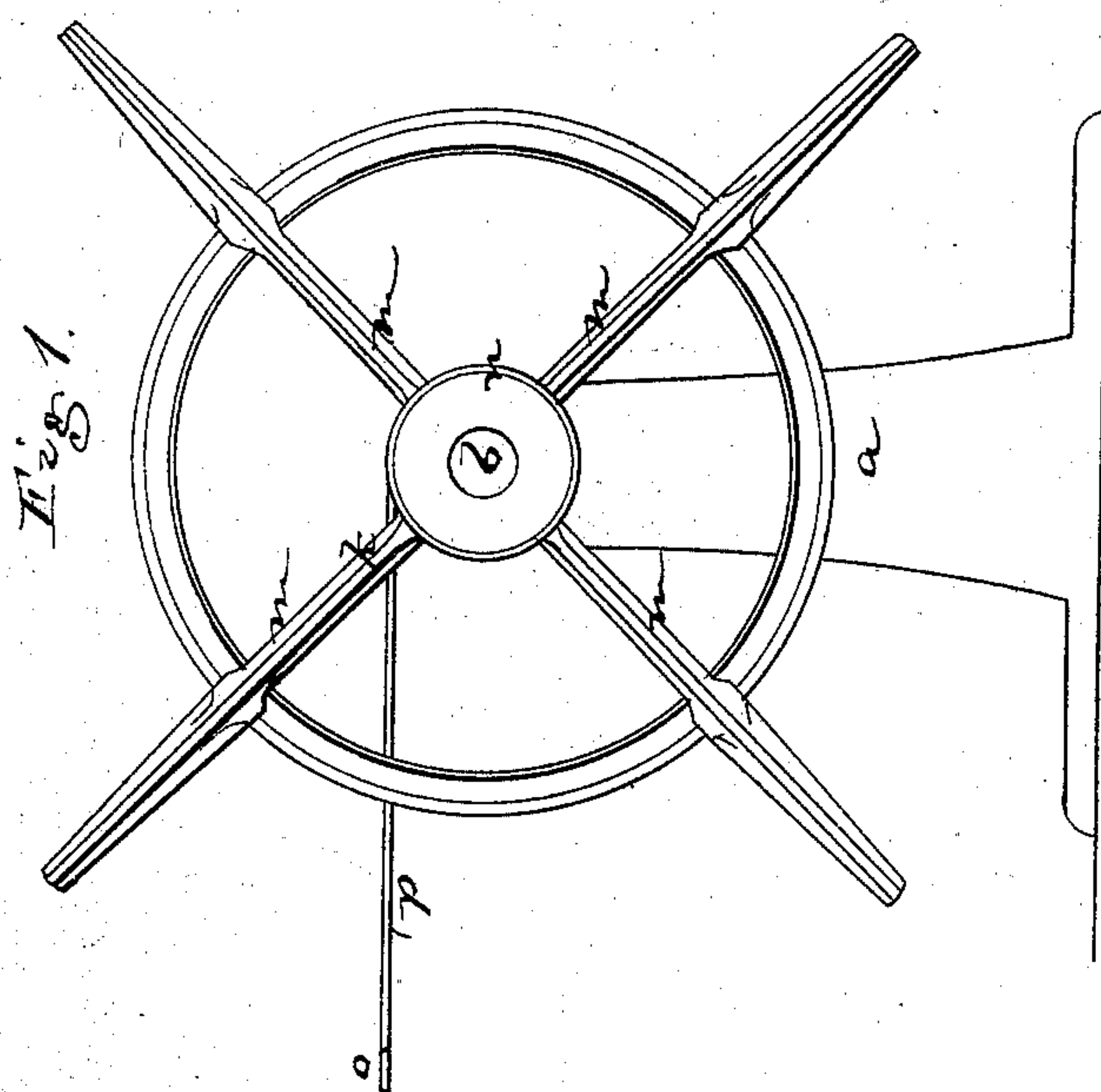


L. GODDU.

Spool for Boot and Shoe Soling Machines.

No. 143,137.

Patented September 23, 1873.



Witnesses.
M. W. Frothingham
L. H. Latimer.

Inventor.
Louis Goddu.
By his Attys.
Crosby & Gould

UNITED STATES PATENT OFFICE.

LOUIS GODDU, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE AMERICAN CABLE-SCREW-WIRE COMPANY.

IMPROVEMENT IN SPOOLS FOR BOOT AND SHOE SOLING MACHINES.

Specification forming part of Letters Patent No. **143,137**, dated September 23, 1873; application filed July 24, 1873.

To all whom it may concern:

Be it known that I, LOUIS GODDU, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Spool for Boot and Shoe Soling Machines; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

In the use (in the manufacture of boots and shoes) of what are known as cable-screw-wire machines to unite the uppers and soles, it has been customary to employ for holders of the wire large wooden spools, the screw-wire, as it is cut, being wound upon the spools, and the spooled wire being transported from the screw-wire factory to the shoe-factory for use, and the empty spools from the shoe-factory to the screw-wire factory for refilling.

These spools are bulky and inconvenient to pack; and my improvement has reference to the construction of a spool that enables the wooden spool to be dispensed with and the wire to be transported without attachment to any carrier, the wire, as it is screw-threaded or twisted, being wound upon a suitable spool or drum, from which it can be removed in a coil, and being then transported to the shoe-factory, where it is placed upon the new spool, the construction of which constitutes this invention.

The improved spool I form of metal, and as a wheel to turn upon a pin, the wheel having a perimeter, from one side of which extend four, or any other suitable number of, peripheral arms. To the opposite side or end of the wheel-perimeter is applied a spider, having spokes with elongations or arms, preferably corresponding to the fixed arms of the wheel, the hub of this spider fitting on the pin upon which the wheel turns, and being clamped to the hub by a suitable nut. The coil of wire being ready, the spider is removed and the coil slipped over the perimeter of the wheel. Then the spider is replaced and fastened in position, and the wheel is ready for delivery of the wire. The wheel is preferably attached directly to the machine, and remains a fixture, except as to its removable head or spider, the

wire being more conveniently transported without spools, and being readily applied to the wheel or metal spool.

My invention consists in the wheel or spool thus made, for holding and delivering the wire.

The drawing represents a spool embodying the invention.

Figure 1 shows the spool in front elevation. Fig. 2 is a sectional elevation of it.

a denotes an arm or bracket, at the end of which is a bearing for supporting a shaft or pin, *b*. On one side of the bearing a wheel, *c*, is fixed upon the pin; and the pin may be forced back by a spring, *d*, acting against the end of the bearing, and against a nut, *e*, fixed on the pin. The wheel *c* has a hub, *f*, spokes or arms *g* extending from which unite the hub to a rim or perimeter, *h*, from which, and preferably in the line of the spokes, extend the arms *i*. The pin *b* extends through the hub, and bears the spider *k*, having a hub, *l*, and arms *m*, the arms extending beyond the rim *h*, and corresponding to the arms *i*. The edge of the rim is slotted to receive the respective arms *m*, and a nut, *n*, works in the screw-threaded end of the pin *b* to clamp the spider and wheel together. To guide the wire from the spool a guiding-eye, *o*, at the end of a spring, *p*, may be used.

When the coil of wire is to be applied the nut *e* is unscrewed and the spider *k* removed, which leaves the rim as a projection from the spokes *g* and arms *i*. The coil of wire is then placed upon the rim, and the spider is returned and fastened by the clamp-nut *n*. The arms *m* will now keep the wire in place upon the spool, enabling it to run off as the wheel turns, the wheel rotating by the draft upon the coil as the machine consumes the wire.

I claim—

The metal spool or wheel, having the spokes *g* and arms *i* cast with the rim *h*, and the removable spider or head, formed of the hub *l* and arms *m*, substantially as shown and described.

Executed this 13th day of June, A. D. 1873.
LOUIS GODDU.

Witnesses:

FRANCIS GOULD,
M. W. FROTHINGHAM.