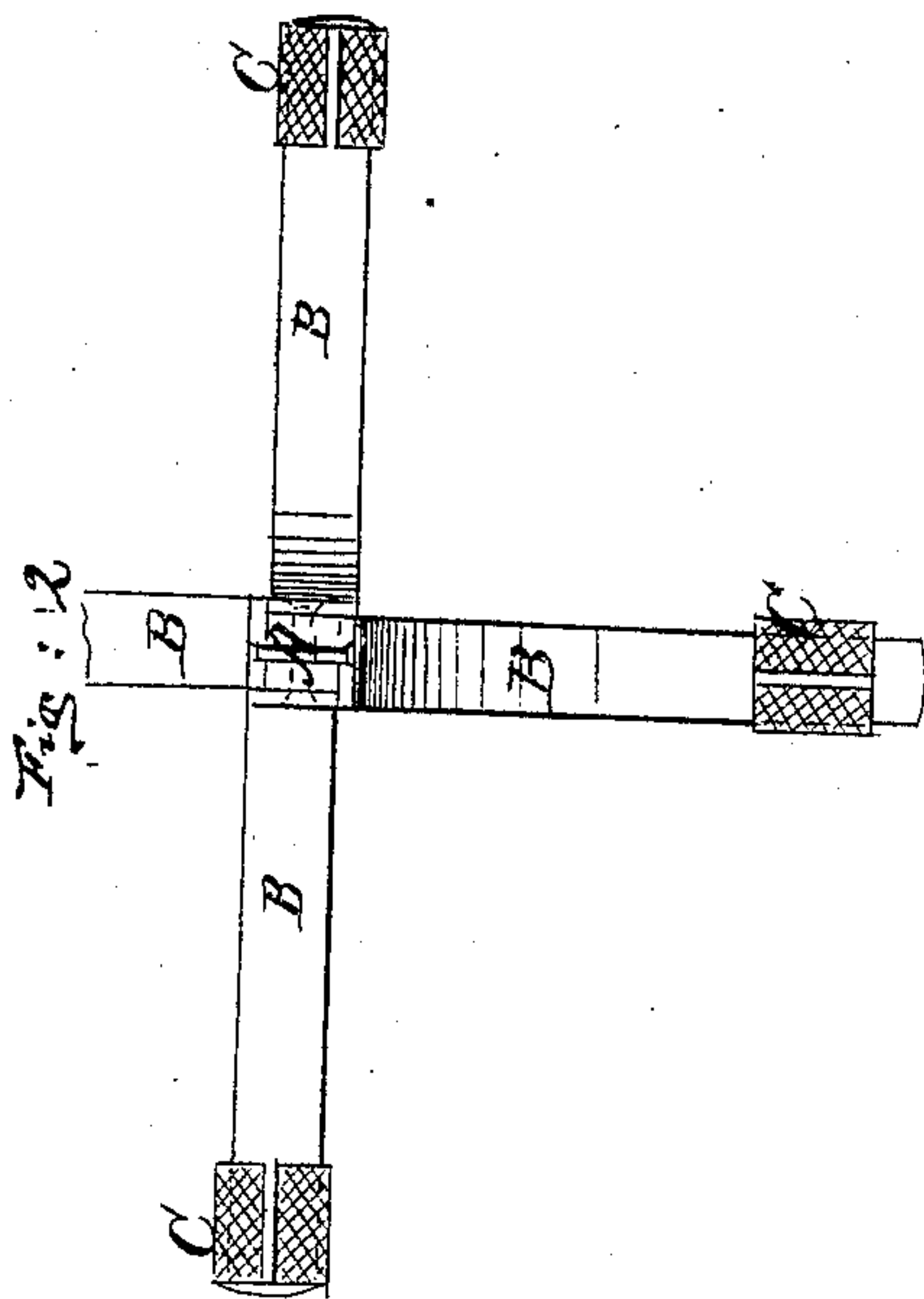
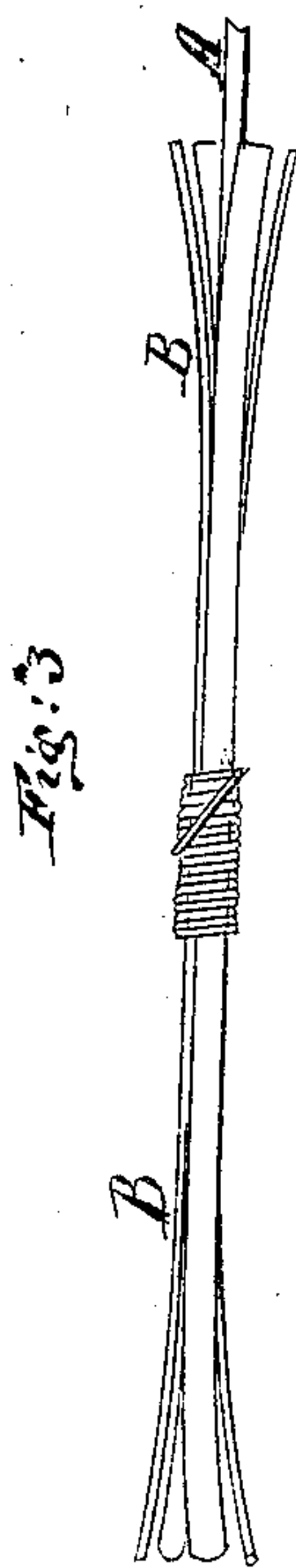
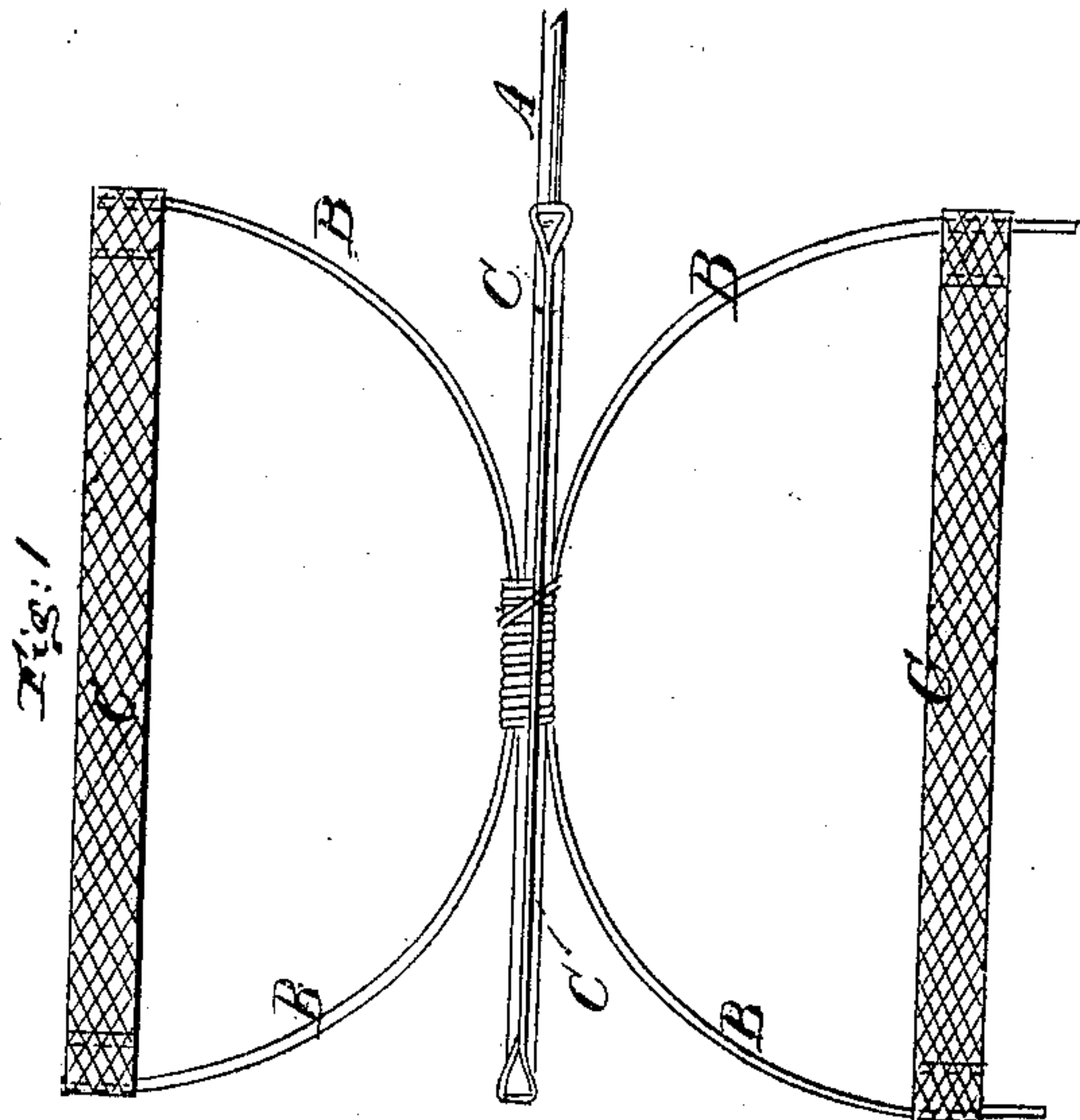


*G. W. N. Yost,
Mower.*

No. 78711.

Patented, June 9, 1868.



Inventor:
G. W. N. Yost
per *Munroe*
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Witnesses:
W. C. Asykett
Theo. Inche

UNITED STATES PATENT OFFICE.

G. W. N. YOST, OF CORRY, PENNSYLVANIA, ASSIGNOR TO CORRY MACHINE COMPANY, OF SAME PLACE.

IMPROVEMENT IN HARVESTER-REELS.

Specification forming part of Letters Patent No. 78,711, dated June 9, 1868.

To all whom it may concern:

Be it known that I, G. W. N. Yost, of Corry, in the county of Erie and State of Pennsylvania, have invented a new and Improved Reel for Harvesters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a side elevation of my invention. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a side view of the same when folded for transportation.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a reel which can be adjusted for straw of different height, which shall not thrash the grain out while throwing it back, and which can be easily folded for transportation.

The invention consists in the use of four, more or less, steel or other bars, fastened in any suitable manner around the reel-shaft, the fastening being around or through the middle of the bars, so that both ends are free. The ends of each bar are bent out, so as to be about at right angles to the reel-shaft, and are connected by means of a flexible strap or band, made of leather fabric or other suitable material. These bands form the operating parts of the reel, and as they are flexible, they will be yielding, and will, even if the reel is revolved with great velocity, not thrash the grain, but will gently throw the same back over the cutter. The straps or bands can be moved on the spring-bars, so that they can be brought nearer to or farther from the reel-shaft, to adapt the device for longer or shorter straw. By taking off the straps or bands, which can be done with great facility, the ends of the steel bars will be released, and will fly against the shaft, so that the whole reel will occupy little more room than its shaft. It can consequently be conveniently packed for transportation.

A represents the reel-shaft. The same may be squared at or near one end, or may receive as many angles as there are reel-bars to be

used; but, if desired, the shaft may be left round, and may receive a sleeve of the required outer shape, or the springs may be directly attached to the round shaft. B B are steel or other spring-bars, of suitable cross-section, and of the required length. The spring-bars B are, at or near their middle, fastened to the shaft A, in any suitable desired manner, either by means of rivets, as in Fig. 2, or by means of a wire or other clasp. The ends of the spring-bars are left free, and are bent out, as shown in Fig. 1, to be connected by means of flexible straps or bands C, which have loops at the ends, so that they can be easily fastened to the ends of the bars B, and may slide on the same. The bands C can thus be brought as far from the shaft as may be desired. The whole reel is very light, and can be cheaply made. When it is to be packed the bands are taken off, and the ends of the springs will fly against the shaft, as indicated in Fig. 3, in which position it occupies the least possible room.

The spring-bars, instead of being fastened to the shaft near their centers, may be attached to the same with their ends, in which case double the number of spring-bars will be required, each strap being fastened to two spring-bars.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. Making the sweeps of harvester-reels of flexible bands or straps, substantially as herein shown and described.

2. Making the arms by which the sweeps of a harvester-reel are connected with the shaft A of spring metal, so that they can be folded against the shaft when the sweeps are taken off, as set forth.

3. A harvester-reel, when composed of the shaft A, spring-bars B, and bands or straps C, the latter being adjustable on the bars B, and all made and operating substantially as herein shown and described.

G. W. N. YOST.

Witnesses:

WM. F. McNAMARA,
ALEX. F. ROBERTS.