

J. S. FENNER.
REEL.

No. 83,270.

Patented Oct. 20, 1868.

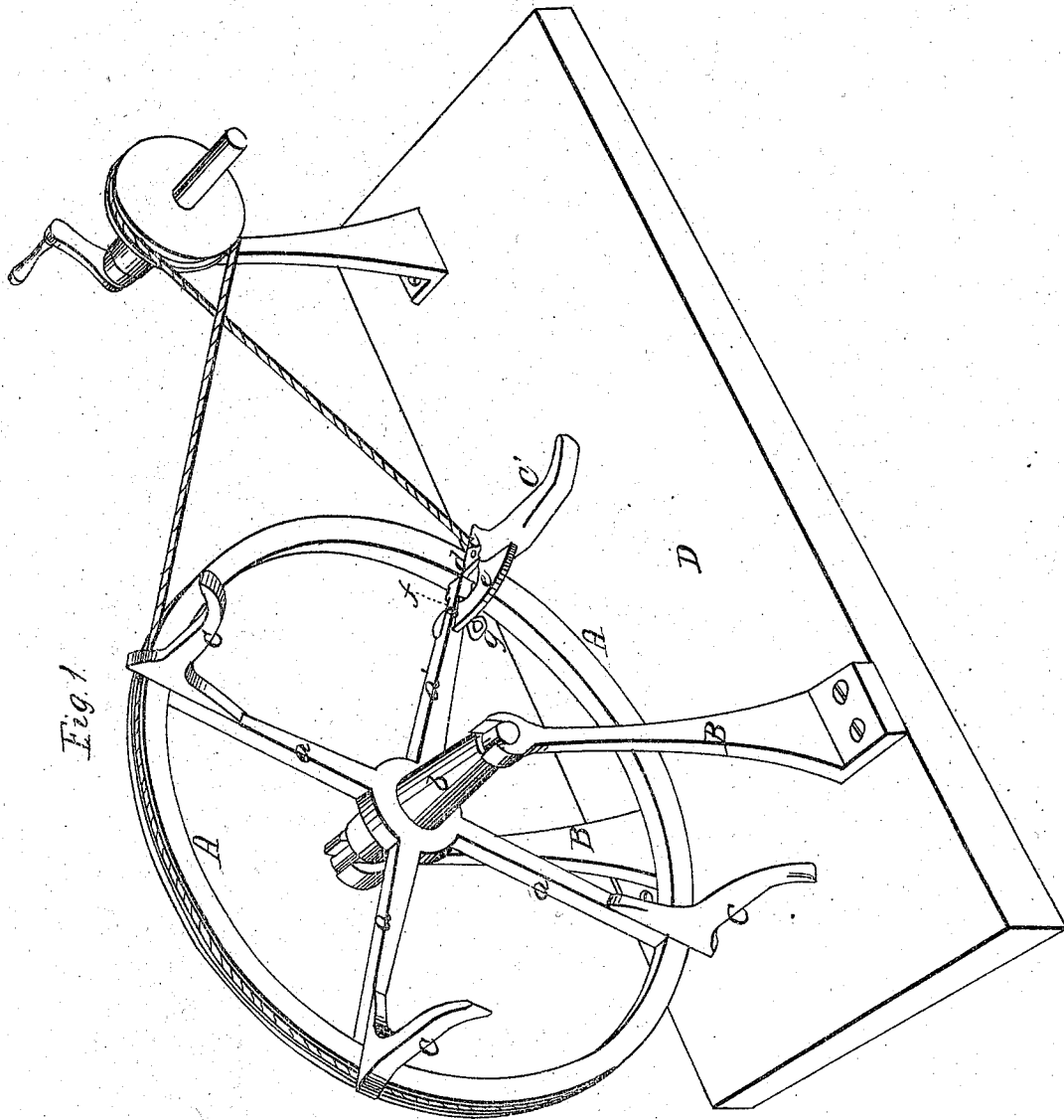


Fig. 1.

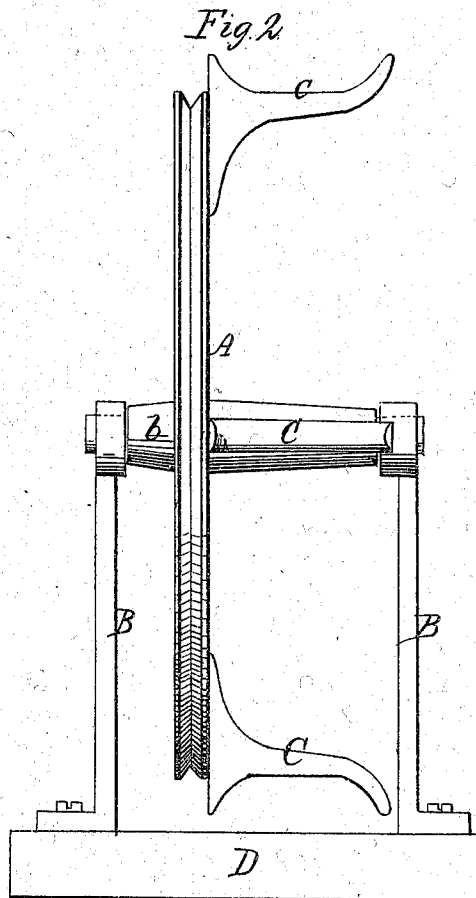
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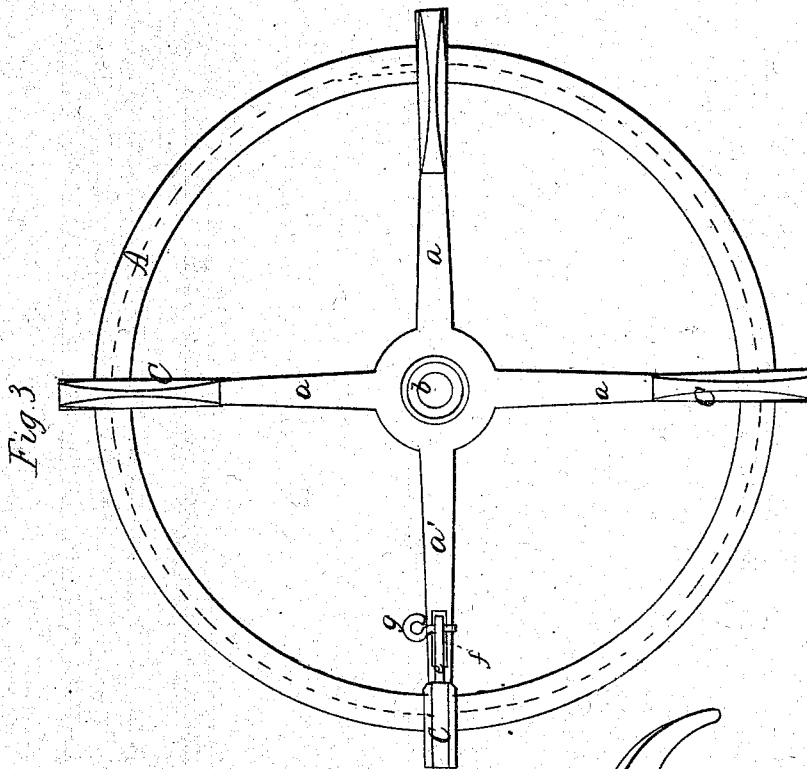
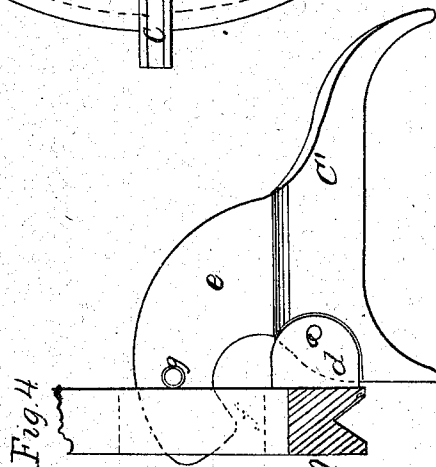
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JOHN S. FENNER, OF WARREN, RHODE ISLAND, ASSIGNOR TO
INMAN MANUFACTURING COMPANY.

Letters Patent No. 83,270, dated October 20, 1868.

IMPROVEMENT IN REEL.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN S. FENNER, of Warren, in the county of Bristol, and State of Rhode Island, have invented a new and improved Reel; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the improved reel.

Figure 2 is an edge view of the same

Figure 3 is a side view.

Figure 4 is an enlarged view, in detail, of the pivoted arm of the reel.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a new and improved mode of constructing reels which are designed chiefly for winding silk braid and other threads, where it is important to have the reels very light and durable.

The nature of my invention consists in a scored or grooved pulley or ring, having curved reel-arms extending from its face or side, the pulley and arms being constructed as hereinafter set forth.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawing, A represents a ring which has a groove in its periphery, and which is connected by spokes, *a a a a*, to a central hub, *b*, having journals formed on its ends. The said ring is made quite thin, and may be of any required diameter. It is sustained by its journals in the forked ends of standards B B, so that it can be readily turned, and, when desired, lifted out of its bearings. This ring thus con-

structed is adapted to serve as a pulley for receiving an endless band, by which motion can be transmitted to it from another pulley, as shown in fig. 1, and it is also adapted to serve as a frame for supporting a number of arms, *O O O C*, which collectively serve as a reel. The arms are curved, as shown, so as to keep the thread in place upon them during the operation of winding or unwinding, and they may be cast solid upon one side of the said pulley, or cast separate, and secured to the side of the pulley, at regular intervals apart, by screws or rivets. One of the reel arms, *C*, is pivoted, at *c*, to an ear, *d*, which is cast upon one side of the reel-ring A, and this arm is constructed with a curved tongue or segment, *e*, which passes freely through a slot made through the spoke *a*, and receives through it a pin, *g*. By removing pin *g*, the arm *C* can be turned inward, and the reel thereby contracted so as to allow the removal from or the application to it of a hank or skein of thread.

It will be seen from the above description that I combine a reel and a pulley in such manner as to form a very light and compact device, the pulley serving as such, and also as a frame for supporting and carrying the reel-arms.

What I claim as my invention, and desire to secure by Letters Patent, is—

The hinged arm, *C*, applied and retained in position, as described, in combination with the immovable arms *C*, and the pulley A, all constructed in the manner and for the purpose described.

JOHN S. FENNER.

Witnesses:

W. B. WHITE,
JOS. MC CARTHY.