(No Model.)

G. E. DIXON.

WIRE REEL AND STRETCHER.

No. 456,985. Patented Aug. 4, 1891.

Fig. 1

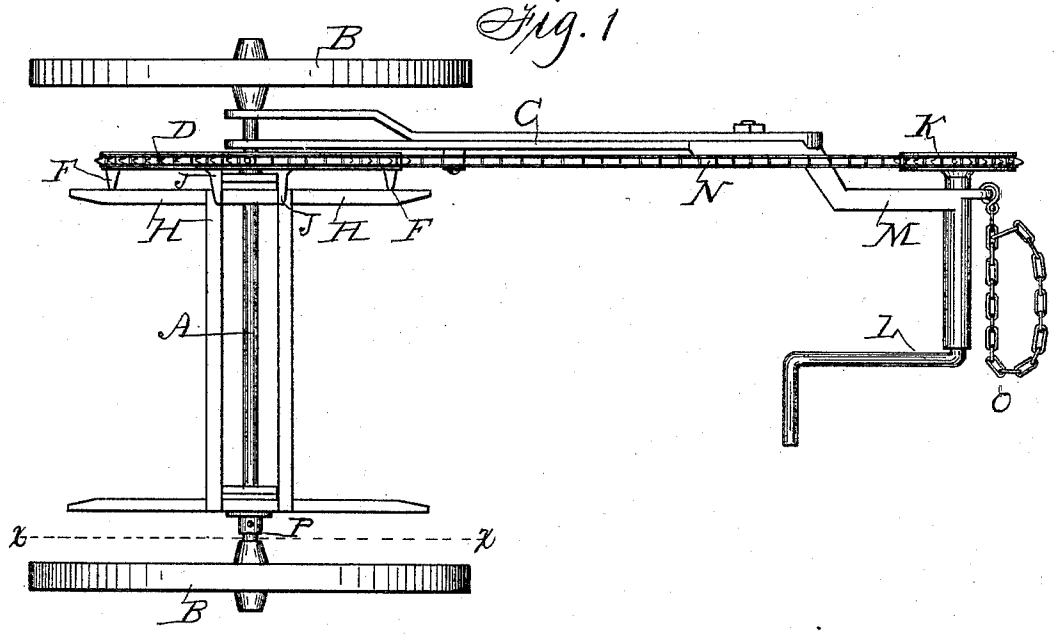
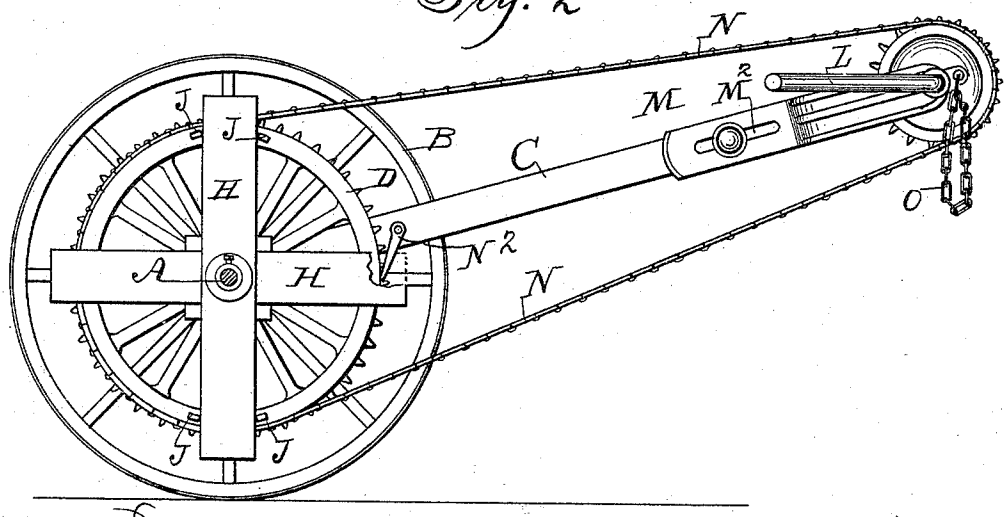


Fig. 2



Witnesses:
M. P. Smith.
R. H. Owrig.

Inventor: George E. Dixon,
By Thomas G. Owrig, Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE E. DIXON, OF BEACON, IOWA.

WIRE REEL AND STRETCHER.

SPECIFICATION forming part of Letters Patent No. 456,985, dated August 4, 1891.

Application filed February 14, 1891. Serial No. 381,504. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. DIXON, a citizen of the United States of America, and a resident of Beacon, in the county of Mahaska and State of Iowa, have invented a new and useful Improvement in Wire Reels and Stretchers, of which the following is a specification.

My invention relates to that class of devices for which United States Letters Patent No. 444,314 were issued to me January 6, 1891, and is an improvement on the same.

The object of my invention is to provide means to prevent side draft, to adjust the position of the sprocket-wheels relative to each other, and to strengthen the connection between the bar and the axle, and I accomplish these results as hereinafter set forth, pointed out in my claims, and illustrated by the accompanying drawings, in which—

Figure 1 is a plan view of my complete device. Fig. 2 is a side view of the same, one of the traction-wheels being removed.

A represents an axial shaft mounted in traction-wheels B, which are secured thereto and removable therefrom.

C represents a beam secured to the axle A and extending forward therefrom. This beam is double and the rear end portion thereof is bifurcated and the axle A is run through both portions thereof, thereby preventing lateral movement of the projecting portion.

D represents a sprocket-wheel loosely mounted on the axle A adjacent to the beam C. This wheel has a series of lugs F formed integral with and projecting therefrom on the side opposite to the beam C, which are adapted to engage the end portion of the spool H, which latter is loosely mounted upon the axle A, and prevent said spool from coming in contact with the wheel D. A number of lugs J are also fixed to the wheel D on the same side thereof as the lugs F. The lugs J are longer than the lugs F and are adapted to engage with the end of the spool H adjacent thereto and rotate the same.

K represents a sprocket-wheel mounted on a crank-shaft L, which latter is supported in a bearer M, which is fixed to the outer end of the beam C. The outer end portion of this beam is provided with a slot M^2, adapted to admit a set-screw or bolt M^3, to adjustably secure the bearer M thereto. The two sprocket-wheels are connected by a chain N, and are actuated by the rotation of the crank-shaft L, which latter projects toward the center of the machine from the plane of the beam C. A pawl N^2 is pivotally secured to the beam C and engages with the periphery of the wheel D to prevent backward movement thereof. This pawl may be reversed and the wire drawn from the opposite direction, if desired, without changing the position of the machine.

O represents a draft-chain fixed to the front end of the bearer M, and is provided with a hook on its free end, by means of which it may be fixed to a post or other stationary object by wrapping the same about the post and securing the hook in one of the links.

P represents a collar adjustably fixed to the axle A on the side of the wire-spool H opposite to the sprocket-wheel D, and is adapted to hold said spool in engagement with the lugs F on the said sprocket-wheel.

By reason of the bearer M being fixed to the beam C in such a manner as to extend toward the center of the machine from said beam and having the crank-handle L projected inward therefrom, the hand-hold of the bearer and the crank are brought nearer to the center of the machine, and the machine is thereby more easily and steadily held.

I claim as my invention—

1. A wire reel and stretcher comprising an axial shaft supported by traction-wheels, a bifurcated beam rigidly fixed to said shaft, a shaft-bearer adjustably fixed to said beam and carrying a crank-shaft with a sprocket-wheel mounted thereon, a chain connecting the same to the sprocket-wheel on the axial shaft, which latter sprocket-wheel has a series of lugs thereon engaging with a wire reel or spool, an adjustable collar on the axial shaft engaging the wire-spool and holding it in contact with the lugs on the said latter sprocket-wheel, and means for preventing backward movement of the sprocket-wheels, as and for the purposes stated.

2. In a wire reel and stretcher, the combi-

nation, with the beam extending at right angles from the axle-shaft, of a bearer adjustably fixed to the outer end of said beam and projecting inward toward the center of the machine and having a crank-shaft mounted therein, the handle of which shaft projects from the bearer on the side thereof nearest to the center of the machine, as and for the purposes set forth.

GEORGE E. DIXON.

Witnesses:
RICHARD M. BOYER,
W. R. LACEY.