

(No Model.)

J. B. BIRD.

DEVICE FOR HOLDING AND ADJUSTING REELS FOR ROLLING PAPER, &c.

No. 263,012.

Patented Aug. 22, 1882.

FIG. 1

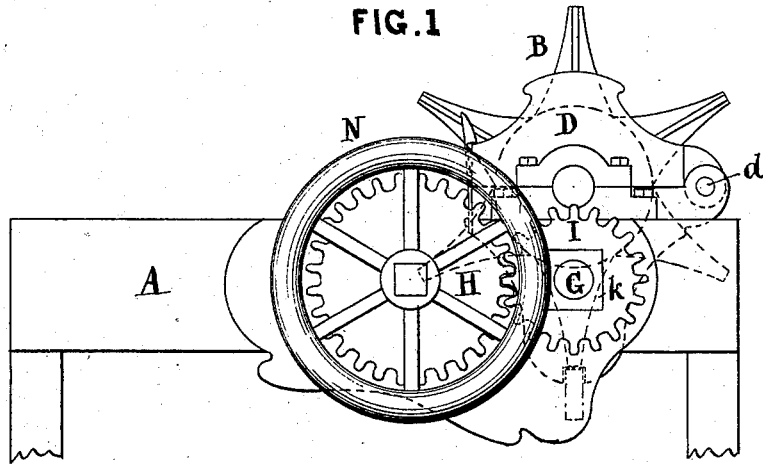


FIG. 2.

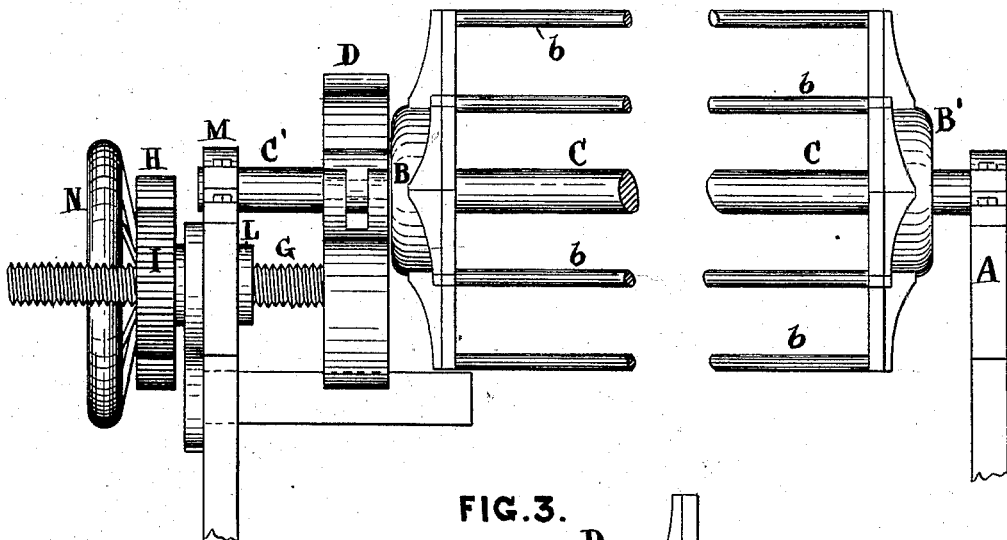
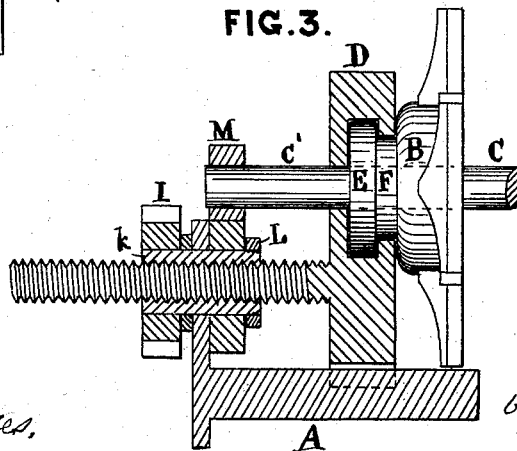


FIG. 3.



Witnesses.

E. Planta.

Gilbert Hanks.

Inventor.

Jas. B. Bird
by J. H. Adams
Atty.

UNITED STATES PATENT OFFICE.

JAMES B. BIRD, OF HYDE PARK, MASSACHUSETTS.

DEVICE FOR HOLDING AND ADJUSTING REELS FOR ROLLING PAPER, &c.

SPECIFICATION forming part of Letters Patent No. 263,012, dated August 22, 1882.

Application filed February 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. BIRD, of Hyde Park, in the county of Norfolk and State of Massachusetts, have invented a new and useful Device for Holding and Adjusting Reels for Rolling Paper, &c., of which the following is a specification.

My invention relates to a means for adjusting reels upon which paper or other fabric is wound as it is manufactured. In the use of ordinary reels for this purpose a difficulty has arisen owing to the tendency of the fabric to overrun one side or the other of the reel. It is the object of my invention to obviate this difficulty; and the invention consists in adjusting the reel lengthwise to one side or the other of the machine, and this while the machine is in operation and without stopping the same.

Referring to the accompanying drawings, Figure 1 is an end view of a machine embodying my invention. Fig. 2 is a side elevation of the same, and Fig. 3 is a vertical section of the part containing my invention.

A is a frame of any suitable size or construction, in which is mounted a reel composed of the heads B B' and cross bars *b b*, and fixed to a shaft, C, or so attached as to slide lengthwise on the same. The head B has a bearing, F, in a box, D, and an enlargement, E, fitting in a corresponding recess in the box, in which it rotates freely.

The box D is divided horizontally into two parts, hinged together, as shown at *d*, Fig. 1, which admits of the upper part being raised to insert or remove the journal of the reel. The shaft C extends through the box and into and through a standard, N, attached to the frame A, as shown by C'. The lower end of the box D moves in a groove in the frame A, and to the outer side of the box D is attached

a screw, G, as shown. The screw G passes through a nut, K, which is supported in the frame A and standard M, and which is secured to a cog-wheel, I, by which it is rotated. By turning the wheel I and nut K the screw G is caused to move forward or back, as desired, thus moving the reel longitudinally, so as to nicely adjust it to the proper position for winding the fabric.

The reel may be fixed to the shaft C so as to move with it, or it may be arranged to slide on the shaft, as desired.

Motion may be imparted to the cog-wheel I by the gear-wheel H, to which is attached the hand-wheel N.

The reel can be moved and adjusted while the machine is in operation.

What I claim as my invention is—

1. A reel for winding paper or other fabric, having one head journaled in a movable box or bearing, so as to admit of the longitudinal adjustment of the reel, substantially as set forth.

2. In a reel for winding paper or other fabric, the combination, with the head B and extended shaft C', of the enlargement E, fitted in a movable box or bearing, D, as and for the purpose specified.

3. The combination of the head of the reel B, its enlargement E, the shaft C C', the movable box or bearing D, and the nut K in frame A, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES B. BIRD.

Witnesses:

JOS. H. ADAMS,
E. PLANTA.