

(No Model.)

2 Sheets—Sheet 1.

A. & I. TOMPKINS.
ADJUSTABLE SUPPORTING DEVICE FOR KNITTING MACHINE
PRESSER WHEELS, &c.

No. 513,157.

Patented Jan. 23, 1894.

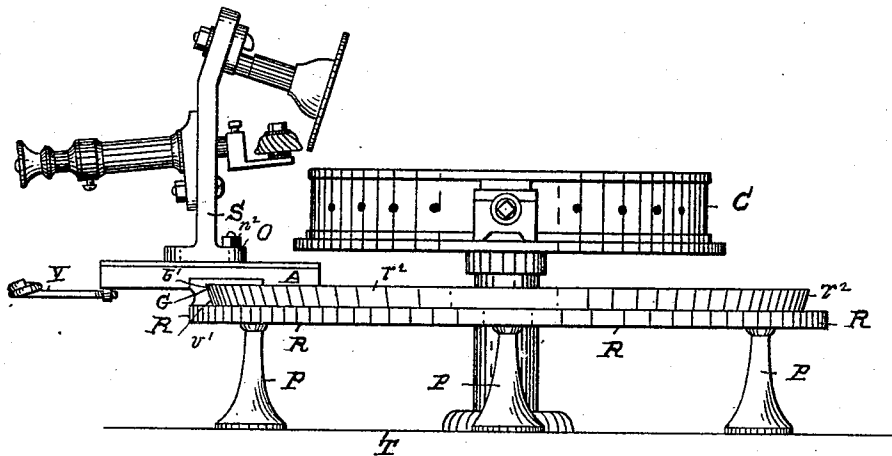


Fig 1

WITNESSES

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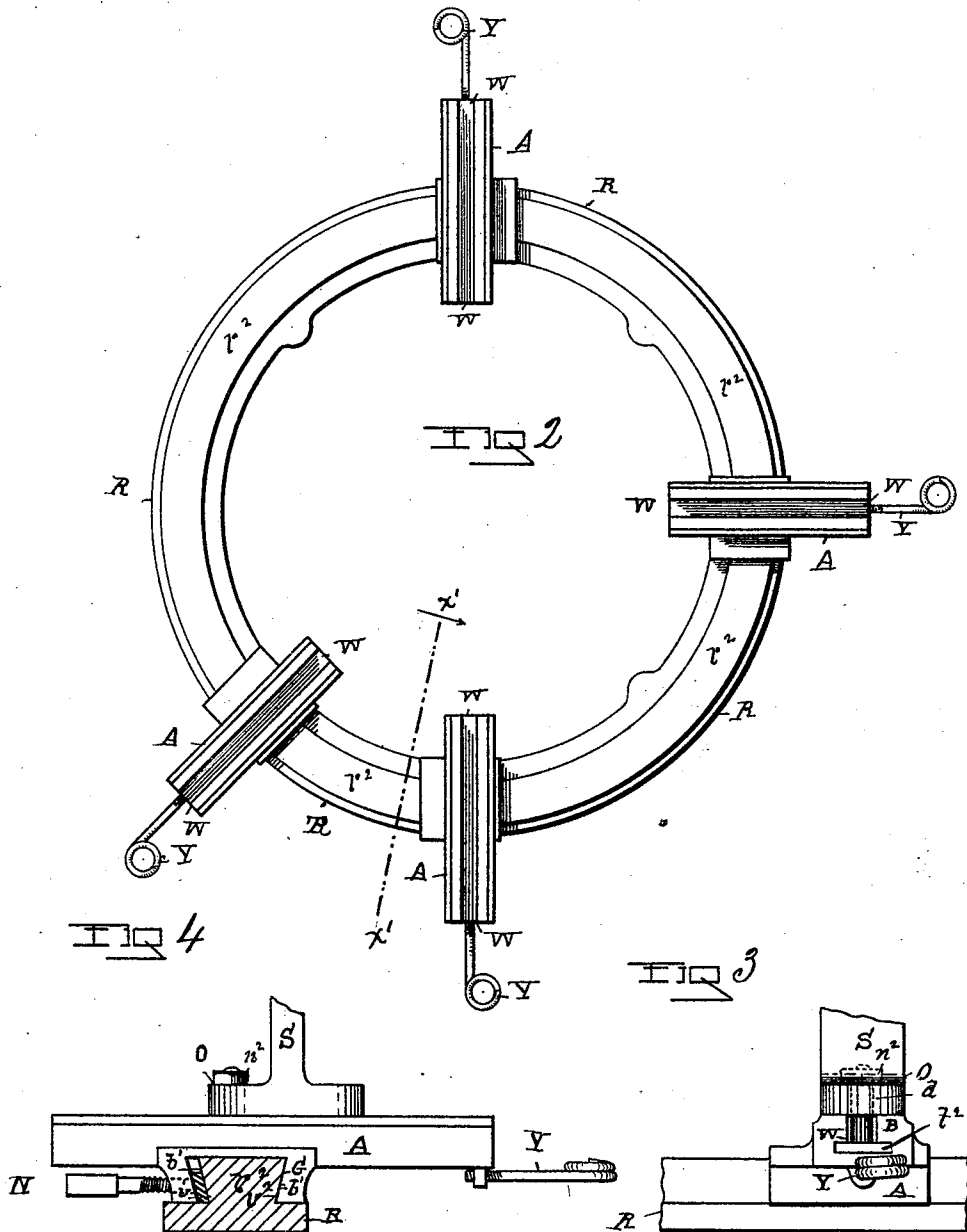
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WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT TOMPKINS AND IRA TOMPKINS, OF TROY, NEW YORK.

ADJUSTABLE SUPPORTING DEVICE FOR KNITTING-MACHINE PRESSER-WHEELS, &c.

SPECIFICATION forming part of Letters Patent No. 513,157, dated January 23, 1894.

Application filed February 21, 1893. Serial No. 463,254. (No model.)

To all whom it may concern:

Be it known that we, ALBERT TOMPKINS and IRA TOMPKINS, both of the city of Troy, county of Rensselaer, and State of New York, have invented a new and useful Improvement in Adjustable Supporting Devices for Knitting-Machine Presser-Wheels, &c., of which the following is a specification.

Our invention relates to the construction of the lower ring of rotary knitting machines and to the construction of the standards which support the sinker burrs and wheels by which the position of said standards may be radially and circumferentially adjusted with reference to the knitting machine cylinder, so that different sizes of the latter may be used.

Accompanying this specification to form a part of it there are two sheets of drawings containing four figures illustrating our invention with the same designation of parts by letter reference used in all of them.

Of these illustrations Figure 1 is a side elevation of portions of a circular knitting machine and showing the lower ring, containing our improvement. Fig. 2 is a top view view of the ring with the standards omitted. Fig. 3 is a side elevation of a part of the ring and with one of the sinker burr and wheel standards shown as connected thereto with the upper end of the standard shown as broken off. Fig. 4 is a section taken on the line x', x' , of Fig. 2.

The several parts of the apparatus thus illustrated are designated by letter reference and the function of the parts is described as follows:

The letter T designates the knitting machine table; R the lower ring, supported on posts P, upwardly projected from the table.

The letters A designate radial arms which are made to adjustably connect with the ring R, so as to slide around thereon and be secured thereto at any desirable position relatively to the machine cylinder C as will be described hereinafter.

The letters S designate the burr-wheel supporting standards which are adapted to be moved outwardly or inwardly and secured in any desired position between the ends of said arms as will be described hereinafter.

The letter G designates a groove made in

the bottom of each of the radial arms A, and these grooves are each preferably made with downwardly and inwardly beveled sides b', b' , as shown at Fig. 4.

The letter r^2 designates a slide-way or track made in the top of the ring R, and this slide-way or track has upwardly and outwardly beveled sides v', v^2 , and is adapted by such construction to enter the groove G, made in each of the arms A, and to have each of said arms secured thereon by means of a set-screw N, as shown at Fig. 4, so that when the latter upon each of the arms A, is not screwed in, each of the latter can be moved around on the ring R, to be secured at any desired position thereon by the said screw N.

The letters W designate slide-ways made in the upper surfaces of the arms A, from end to end.

The letter O designates an offset made on each of the standards S, at the side thereof, immediately above and so as to rest on the top of each of the arms A, at each side of the slide-way W.

The letter t^2 designates a tonguing piece which at its lower end has an inverted T-form and is adapted to be entered at the end of each of the arms A, within the slide-way W. Each of these tonguing pieces (and there is one for each standard) has a bolt B, projected upwardly therefrom to pass through an opening (designated by the dotted line d ,) in each of the offsets O, as shown at Fig. 3.

The letter n^2 designates a nut that is threaded on to the upper end of each of said bolts B, so as to engage with the top of the offset (through which the bolt passes) when the nut is screwed down. When the nuts are not screwed down, each of the standards, and its tonguing piece, can be moved back and forth within the slide W, and the standard can be secured at any desired point therein by means of the nut n^2 .

The letter Y designates yarn guides.

The letter C designates the knitting machine cylinder.

As thus made and arranged the standards for supporting the sinker burrs or wheels can be circumferentially or radially adjusted, so that cylinders of differing sizes can be used.

Having thus described our invention, what

we claim, and desire to secure by Letters Patent, is—

5 The combination with the bottom ring of a rotary knitting machine, having a track circumferentially made on the upper surface thereof; of arms radially arranged upon said track so as to be moved around thereon and to be secured thereto; said arms each being made with a slide-way in its upper surface,
10 and standards, each made to tongue into the slide-way of one of said arms, and be moved

thereon and secured thereto, substantially in the manner as and for the purposes set forth.

Signed at Troy, New York, this 12th day of March, 1892, and in the presence of the two 15 witnesses whose names are hereto written.

ALBERT TOMPKINS.
IRA TOMPKINS.

Witnesses:

CHARLES S. BRINTNALL,
ERNEST TOMPKINS.