

(No Model.)

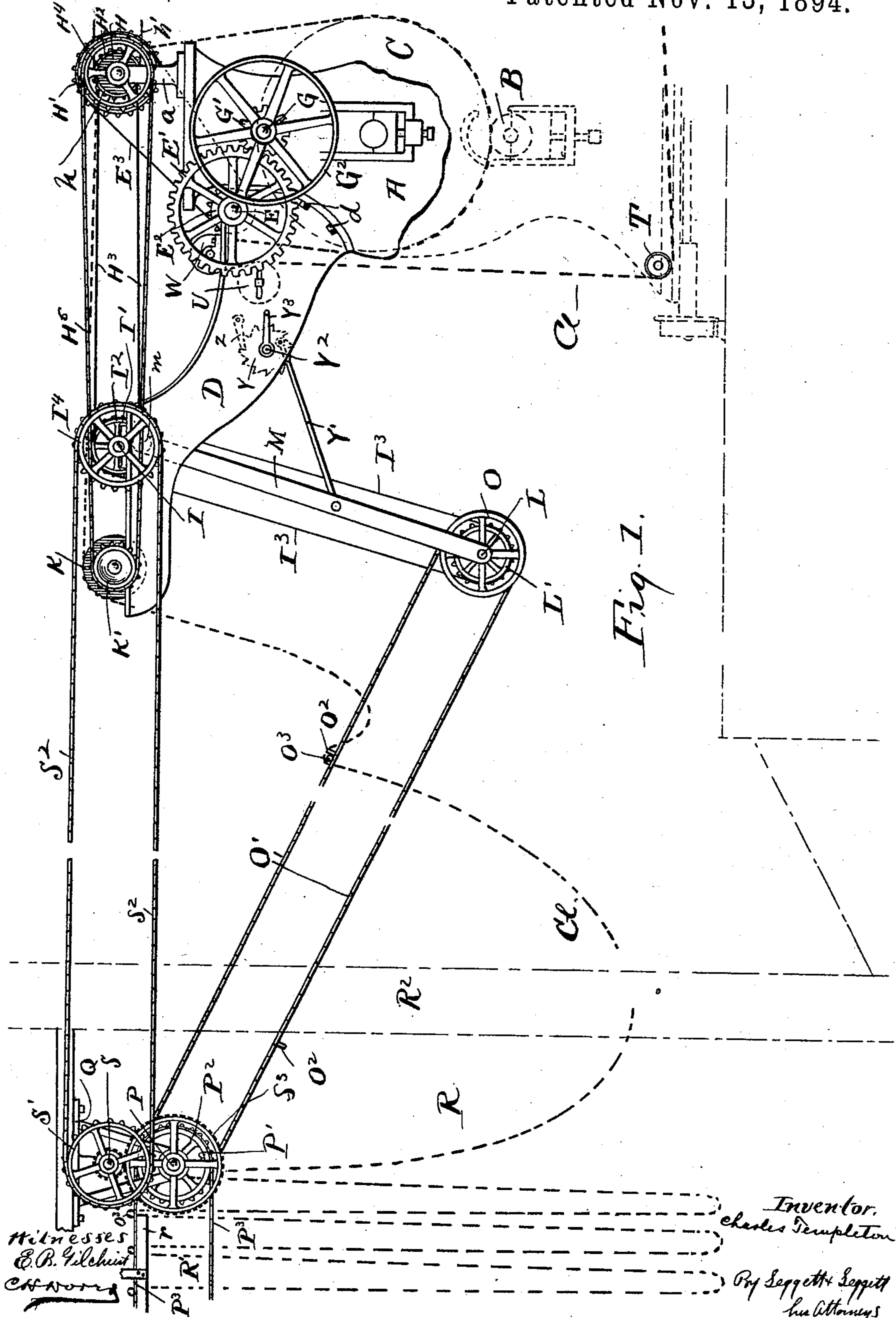
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C. TEMPLETON.

PLANT FOR THE MANUFACTURE OF OIL CLOTH.

No. 529,217.

Patented Nov. 13, 1894.



(No Model.)

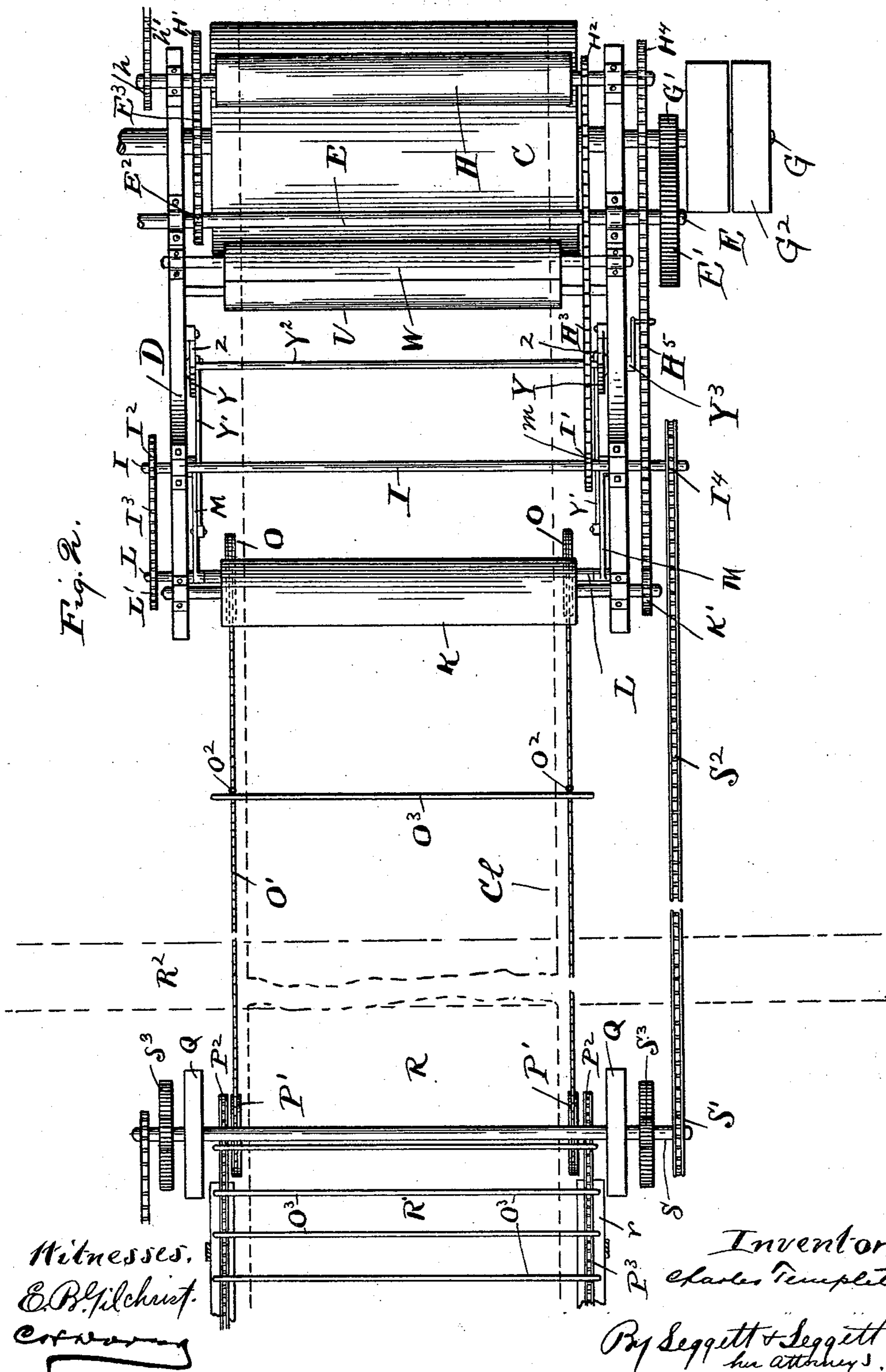
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3 Sheets—Sheet 3.

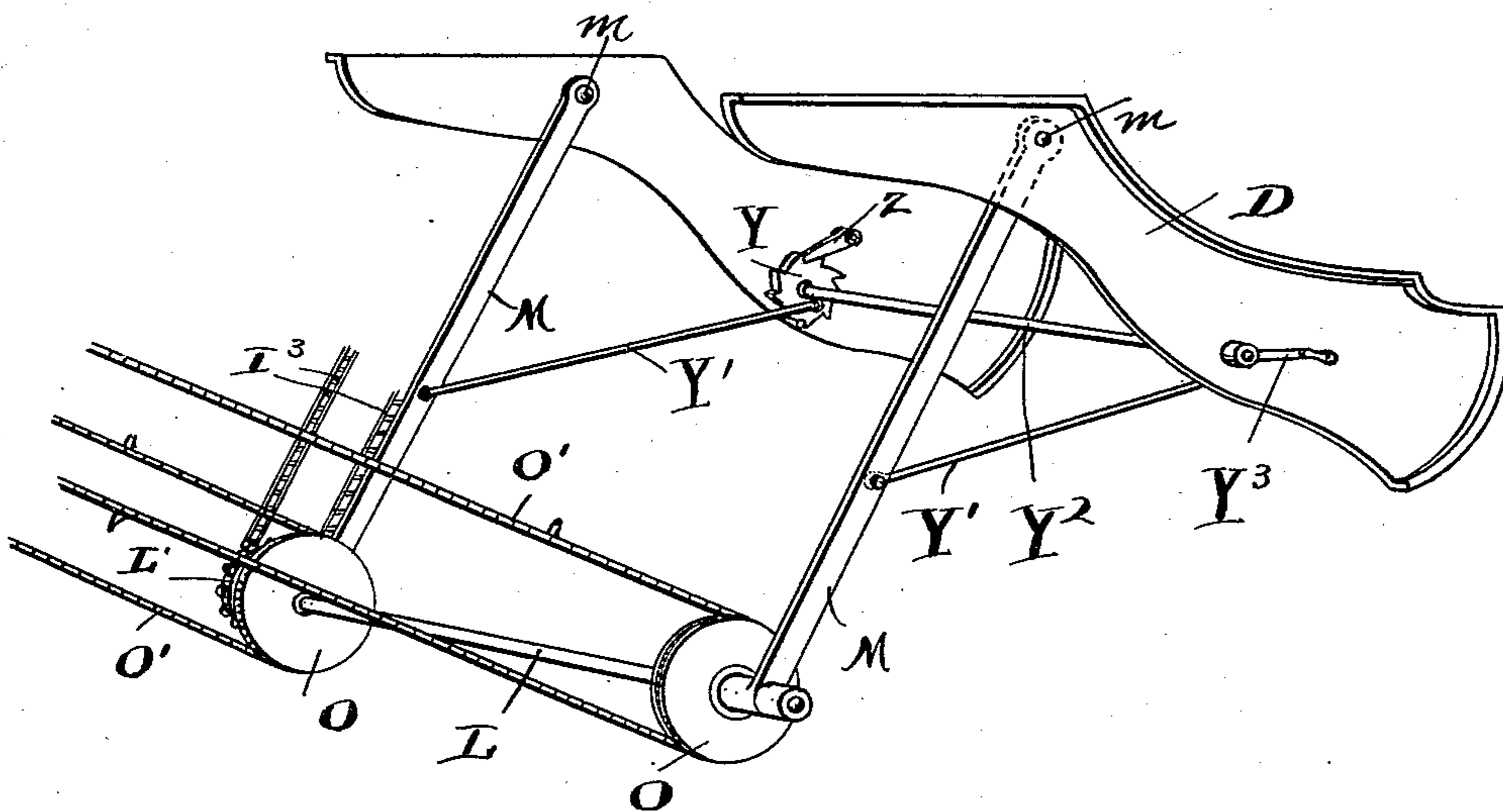
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No. 529,217.

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Fig. 3.



Witnesses.

E. B. Gilchrist
[Signature]

Inventor.

Charles Templeton

By Leggett & Leggett
his Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES TEMPLETON, OF AKRON, OHIO.

PLANT FOR THE MANUFACTURE OF OIL-CLOTH.

SPECIFICATION forming part of Letters Patent No. 529,217, dated November 13, 1894.

Application filed June 16, 1892. Serial No. 436,906. (No model.)

To all whom it may concern:

Be it known that I, CHARLES TEMPLETON, of Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Plants for the Manufacture of Oil-Cloth; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in plants for the manufacture of oil-cloth, more especially to attachments for the printing-machines employed in such establishments, whereby the printed cloth is fed or conveyed directly from said machine to the rack in the drying-room where the printed cloth is dried.

My invention also consists in mechanism for operatively connecting with the printing-machine the mechanism employed for conveying the cloth along the rack in the drying-room, and my invention consists, moreover, in certain features of construction, and in combination of parts, hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of attachments to the printing-machine and connected mechanism embodying my invention, so much of the printing machine and so much of a rack of the drying-room being shown as it is considered necessary to illustrate my invention, portions being broken away to reduce the size of the drawings. Fig. 2 is plan view of the same. Fig. 3 is a perspective in detail.

A represents the supporting-frame of a printing-machine used for printing or impressing figured designs upon oil cloth.

B represents the pattern or printing-roll or cylinder and C the impression cylinder, the same extending transversely of and being supported by the frame-work of the machine and cylinder C being adjustable relative to the pattern roll or cylinder, and operatively connected with the driving-power, all substantially as employed in the machines heretofore devised.

The supporting-frame, at each side of the machine, is provided with a rearwardly-ex-

tending arm, D, said pairs of arms being preferably bolted, as at *d*, to the supporting-frame.

At the forward end of arms D and extending transversely of the machine, is supported a shaft, E, that at one end and outside of the supporting-frame, has operatively mounted thereon a spur-gear, E', that meshes with a driving-pinion G' operatively mounted on shaft or spindle G supported by the frame-work of the machine and provided with a driving-pulley G².

Just inside the supporting-frame, at the opposite side of the machine, shaft E has operatively mounted thereon a sprocket-wheel E², that communicates motion, by means of an endless chain E³, to a sprocket-wheel, H', operatively mounted on one trunnion of a roller H, the trunnions of said roller having bearing in suitable boxes rigid with posts or standards *a* bolted as shown to the top of the supporting-frame of the machine, the other trunnion of the roller having operatively mounted thereon a sprocket-wheel, H², that communicates motion, by means of an endless-chain, H³, to a sprocket-wheel, I', operatively mounted on shaft I that has bearing in boxes rigid with arms or brackets D. One trunnion, preferably said last-mentioned trunnion of roller H has also operatively mounted thereon a sprocket-wheel, H⁴, that communicates motion, by means of an endless-chain H⁵, to a sprocket-wheel K' operatively mounted on a trunnion of a roller K, the trunnions whereof have bearing in boxes rigid with arms or brackets D.

Shaft I communicates motion by means of a sprocket-wheel I² on one end of the shaft and an endless chain I³ to a sprocket-wheel L' operatively mounted on a shaft L that has bearing in the lower end of bars M, pivoted at their opposite ends to arms or brackets D above, as at *m*.

Shaft L, by means of two sprocket-wheels O, at opposite ends of said shaft, respectively, and a pair of endless-chains O', communicates motion to sprocket-wheels P' loosely mounted on shafts or spindles P that are located at opposite sides of the adjacent rack R' of a drying-room R, the partition between

the drying-room and the room containing the printing-machine, being represented by R^2 , and shown in dotted lines. Said partition, of course, is provided with a door (not shown) 5 that is opened during the operation of conveying the printed cloth to the rack in the drying-room.

Above shafts P, and also supported by hangers Q, that support shafts P, but extending from hanger to hanger, is located a shaft 10 S, to which motion is communicated by means of a sprocket-wheel S' operatively mounted on said shaft and an endless chain S^2 operatively connecting said sprocket-wheel with 15 a sprocket-wheel I^4 operatively mounted on shaft I.

Shaft S is intergeared, as at S^3 , with shafts or spindles, P, and the latter have operatively mounted thereon, at a suitable interval apart, 20 two corresponding sprocket-wheels. P^2 and P^3 represent endless chains leading over said sprocket-wheels, and over and lengthwise of the rails r of the track of the rack in drying-room.

The cloth to be imprinted or impressed (and shown in heavy dotted lines) is fed over a roller, T, supported at the bottom of the frame-work of the machine, upward over a tension-roller U, supported by arms or 30 brackets D; thence over a roller W supported at the top at or near the forward ends of arms or brackets D; thence downward over impression cylinder C, between the latter and pattern-roller or cylinder B; thence upward 35 over roller H, located, as hereinbefore described, at the top of the supporting-frame, and thence over roller K at the rear end of arms or brackets D to chains O that, at suitable intervals, are provided with dogs or projections O^2 adapted to receive sticks O^3 that 40 engage the cloth, and fold the same as required, and as illustrated. Chains O' convey the sticks and the cloth to the drying-room and deliver the same to chains P^3 that, as hereinbefore described, travel over and 45 lengthwise of the rails of the track of the rack of the drying-room.

Bars M, that as hereinbefore indicated support the driving-mechanism of endless chains 50 O' have pivoted thereto, respectively, a link or rod, Y' , that at its opposite end, is pivoted to a ratchet-wheel Y. The two ratchet-wheels are operatively, mounted, in common, upon a shaft Y^2 that is supported by arms 55 or brackets D, said ratchet-wheels being located just at one side of the respective arm or bracket D and adapted to be engaged and locked against rotation in the one direction by a pawl Z pivoted to said arm or bracket 60 D, the one end of shaft Y^2 being provided outside of the respective supporting-arm or bracket D, with a crank or handle, Y^3 , by

manipulating which in the one direction or the other chains O' may be simultaneously 65 tightened or loosened as required.

One of the trunnions of roller H has also operatively mounted thereon a sprocket-wheel, h , to which is operatively connected, by means of an endless chain, h' , the cloth-conveying mechanism of a rack (not shown) 70 in a drying-room forward of the printing-press whereby the cloth from said rack may be fed or conveyed directly to the printing-machine. The cloth-conveying mechanism of the drying-rack just referred to is substantially the same as that of rack R' in drying-room R which receives the printed cloth from the printing-machine as hereinbefore described, and therefore, it is not considered 80 necessary to illustrate the same.

It will be observed from the foregoing that the cloth may be conveyed through the printing machine, from one drying-room to the other, without interruption.

What I claim is—

1. The combination with the supporting-frame of a printing-machine of the variety indicated, of a pair of rearwardly-extending arms or brackets D rigid with said frame, a pair of bars, M, pivoted to said arms or 90 brackets, a shaft, L, supported at or near the lower end of said bars, a pair of sprocket-wheels operatively mounted upon said shaft, cloth-bearing-chains O' operatively connected with the aforesaid shaft, and means for adjusting the aforesaid bars as required to 95 tighten said chains, mechanism substantially as described, for communicating motion to said sprocket-wheels, substantially as set forth. 100

2. The combination with the supporting-frame of a printing-machine of the variety indicated, of a pair of rearwardly-extending arms or brackets D rigid with said supporting-frame a pair of bars M, pivoted to said rearwardly-extending arms or brackets, a shaft L 105 supported by said pair of pivoted bars, a pair of sprocket-wheels operatively mounted on said shaft and operated substantially as described, cloth-bearing-chains O' operatively connected with said shaft, and mechanism 110 substantially as indicated for simultaneously moving said pivoted bars on their fulcrum in the one direction or the other and for locking the same in position against movement in the 115 opposite direction, substantially as and for the purpose set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 26th day of April, 1892.

CHARLES TEMPLETON.

Witnesses:

F. H. STUART,
C. H. DORER.