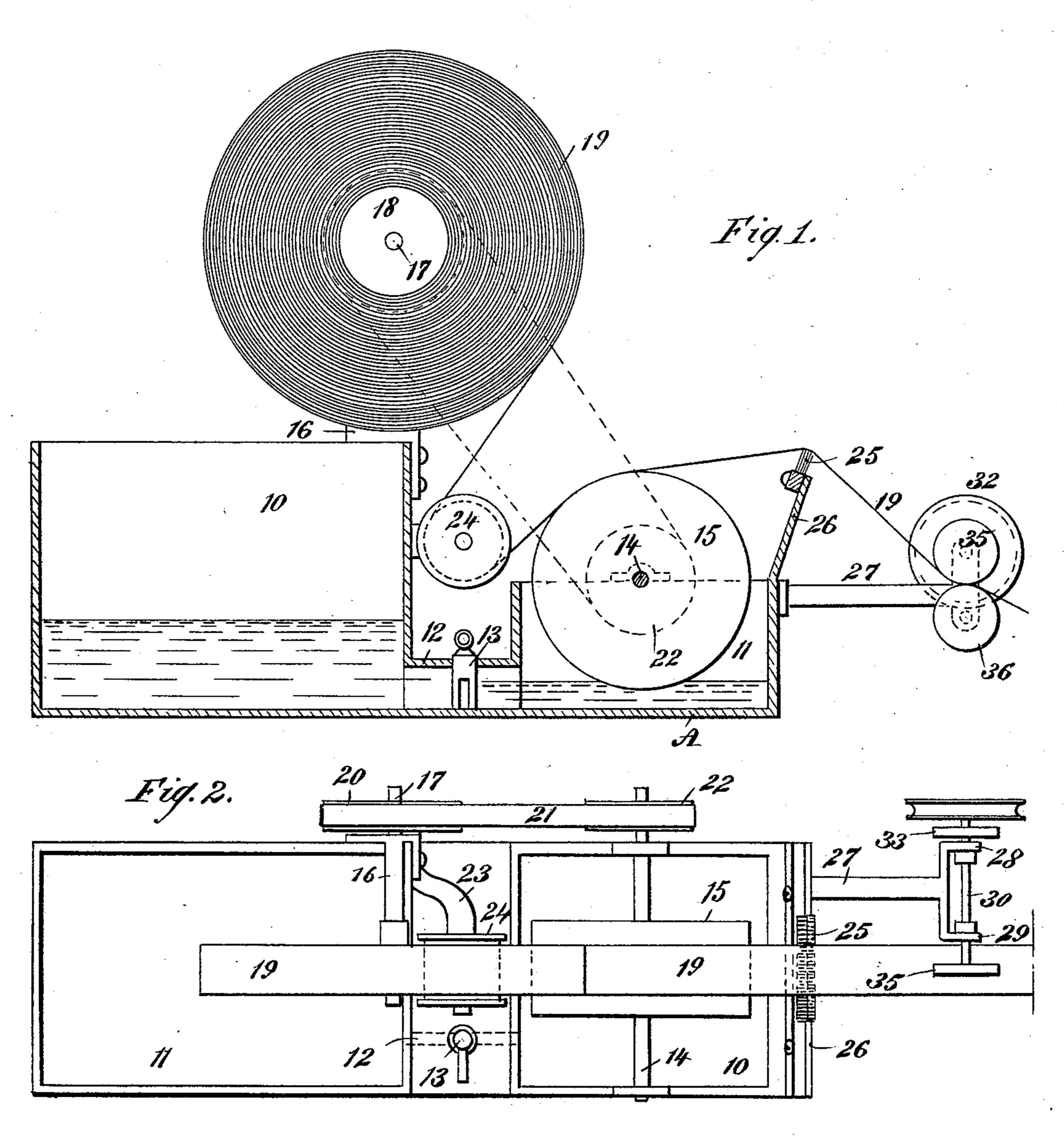
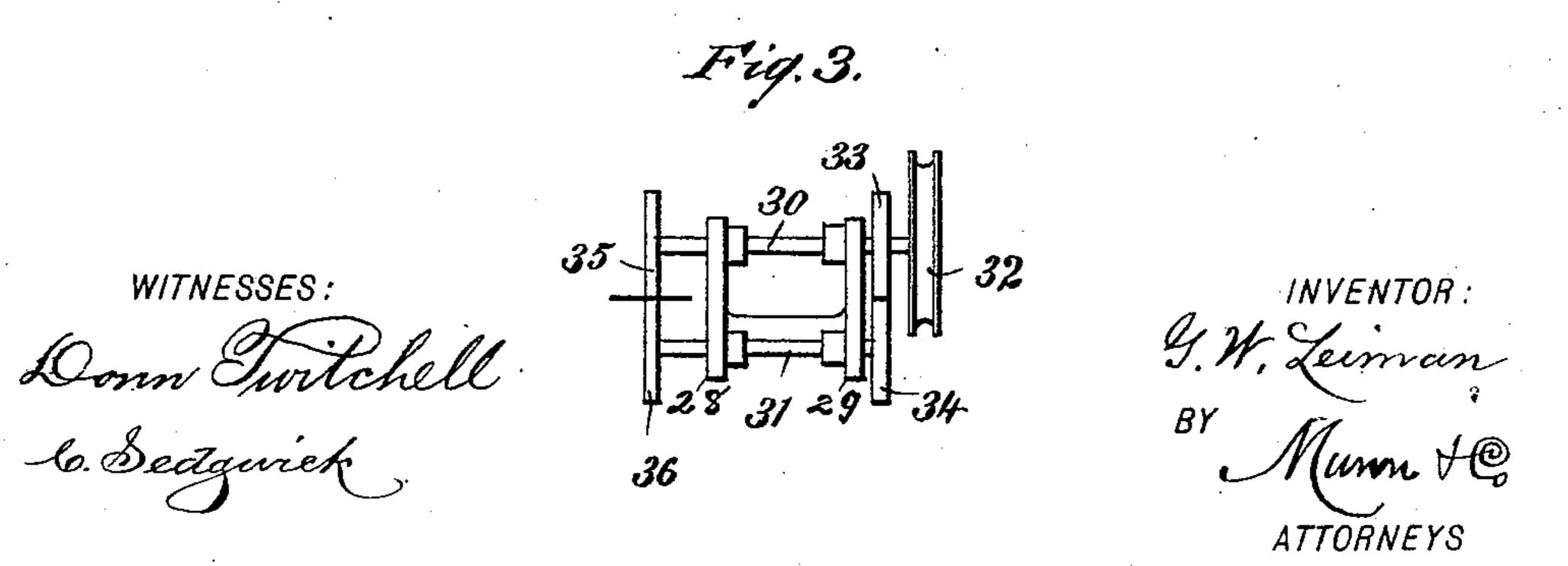
(No Model.)

G. W. LEIMAN. PASTING MACHINE.

No. 459,295.

Patented Sept. 8, 1891.





United States Patent Office.

GEORGE W. LEIMAN, OF NEW YORK, N. Y.

PASTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 459,295, dated September 8, 1891.

Application filed January 9, 1891. Serial No. 377,218. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. LEIMAN, of New York city, in the county and State of New York, have invented a new and useful 5 Pasting-Machine, of which the following is a

full, clear, and exact description.

My invention relates to an improvement in pasting machines, and has for its object to provide a machine of simple, durable, and economic construction especially adapted for pasting paper or fabric in tape form. A further object of the invention is to provide a means whereby the tape may be conveniently fed from a reel, adhesive matter applied thereto, the surplus matter removed, and the pasted tape delivered from the machine to any desired receptacle or object.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and

pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters and figures of reference indicate corresponding parts in all the views.

Figure 1 is a longitudinal vertical section through the machine. Fig. 2 is a plan view thereof, and Fig. 3 is a front elevation of the

30 feed mechanism.

Upon the base-plate A of the machine two tanks or reservoirs 10 and 11 are erected, the tank 10 being higher than the tank 11. The tank 10 is adapted as a storage-tank, and the adhesive material it contains is fed to the tank 11 through the medium of a connecting-tube 12, located at the bottom of the tanks, in which tube any approved form of stop-cock 13 is located.

In suitable bearings secured, preferably, to the upper side edges of the smaller tank or reservoir 11 a shaft 14 is journaled, upon which shaft at or near its center a pastewheel 15 is secured, which wheel is preferably constructed of wood, but may be of any other suitable material, and the diameter of the wheel is such that it extends downward within the tank nearly to the bottom of the same, as is illustrated in Fig. 1. The vertical memsor of an angled hanger 16 is secured to one side of the larger tank or reservoir 10, pref-

erably at or near its inner end, the horizontal member of which hanger extends over the tank. In the horizontal member of the hanger a shaft 17 is journaled, and upon the 55 end of the shaft which projects over the tank 10 a reel 18 is fastened, which reel carries the tape 19 to be gummed. The end of the shaft 17 projecting beyond the side of the tank 10 has fastened thereon a pulley 20, which is 60 connected by a belt 21 with a pulley 22, fast upon the corresponding end of the lower shaft 14. An arm 23 is secured to the inner end of the tank 10, and upon the inner extremity of said arm a friction-pulley 24 is journaled, 65 the position of the said friction-pulley being such that when the reel of ribbon or tape is secured upon the shaft 17 the friction-pulley will be below it and immediately between the tank 10 and the paste-wheel 15, as is best 70 shown in Fig. 2. A brush 25 is utilized to remove the surplus adhesive material from the tape, and this brush is usually secured to the fender 26, which is integral with and projects upward from the outer end of the smaller tank 75 or reservoir 11, the said fender being preferably given an inclination in the direction of the front or delivery end of the machine.

To one side of the forward end of the smaller reservoir or tank 11 a bar or beam 27 is hori-8c zontally secured, which bar or beam is essentially T-shaped, and parallel vertical arms 28 and 29 are secured to the ends of the cross member or head of the beam. In the upper ends of the arms 28 and 29 a shaft 30 is jour- 85 naled, and in the lower ends of the said arms a second and parallel shaft 31 is held to revolve. The upper shaft has secured to one extremity a drive-pulley 32, and the lower shaft is driven from the upper shaft through 90 the medium of friction-wheels 33 and 34, as illustrated in Fig. 3. The opposite ends of the shafts 30 and 31 are also provided, respectively, with friction feed-wheels 35 and 36, and the said friction feed-wheels are so lo- 95 cated that they will engage, respectively, with the upper and lower surfaces of the tape after it has been passed over the brush 25.

In operation, the reel of tape having been secured upon the shaft 17, the tape is carried too downward under and in engagement with the friction-pulley 24, thence upward over and in

engagement with the paste-wheel 15, from whence the tape is carried over the brush 25 and between the friction feed-wheels 35 and 36. Power having been applied to the shaft 5 30 through the medium of the pulley 32, the said shaft and the shaft 31 are revolved, and the tape is thereby drawn off from the reel, and, as the reel is fast to the shaft 17 and said shaft is belted to the shaft 14, the latter ro shaft is revolved, and consequently the pastewheel also. As the tape is fed forward the under side thereof is covered with adhesive material by engagement with the paste-wheel, and the surplus paste is removed by the 15 brush 25 and passes down again into the tank or reservoir 11, from which it was taken.

The object of having two reservoirs or tanks is that material may be fed to the smaller from the larger tank as needed, it being necessary that the smaller tank should be but partially filled in order that the paste-wheel may not carry up any more of the adhesive

material than necessary.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a machine of the character described, the combination, with a base provided with two graded tanks or reservoirs and a valved 30 pipe connecting the same, of a paste-wheel journaled upon the smaller tank and held to revolve therein, a hanger projected upward and over the larger tank, provided with a shaft journaled therein adapted to carry a reel, a

driving connection between the reel-shaft and 35 the paste-wheel shaft, a friction-pulley located between the two tanks or reservoirs in alignment with the paste-wheel, a frictional feed device, and a brush located between the feed device and the paste-wheel, substantially as 40

and for the purpose specified.

2. A pasting-machine comprising a base provided with graduated tanks or reservoirs connected by a valved pipe, a shaft journaled upon the smaller tank, a paste-wheel secured 45 upon the shaft and held to revolve in said tank, a hanger extending upward from and over the larger tank, a shaft journaled in said hanger, a driving connection between the upper shaft and the paste-wheel shaft, a tape- 50 reel secured to the upper shaft, a guide-pulley located between the two tanks in horizontal alignment with the paste-wheel and beneath the reel, an arm projected horizontally from the smaller tank, a drive-shaft journaled 5in said arm, a driven shaft located beneath the drive-shaft and driven therefrom, the said driving and driven shafts being each provided with friction feed-wheels adapted to engage one with the upper and the other with the 60 lower face of the tape, and a brush located between the feed-wheels and the paste-wheel, substantially as and for the purpose specified.

GEORGE W. LEIMAN.

Witnesses:
CHAS. F. BECKER,
W. M. STEWART.