No. 808,578. PATENTED DEC. 26, 1905.

J. B. M. V. RÖTTINGER.

MACHINE FOR REMOVING AND CUTTING MATERIAL FROM CORES.

APPLICATION FILED MAR. 24, 1905.

2 SHEETS—SHEET 1.

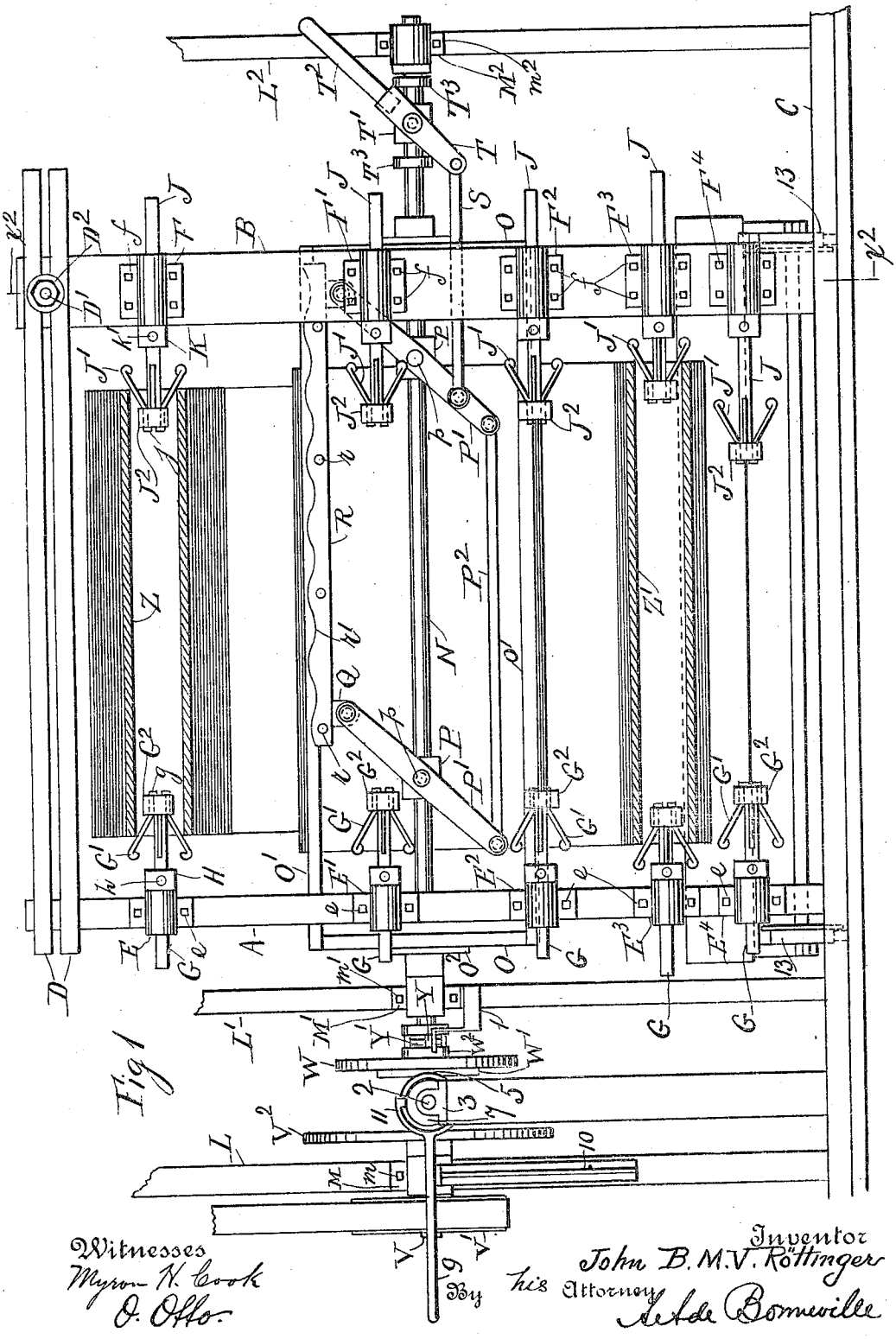


Fig 1

Witnesses
Myron N. Cook
O. Otto.

Inventor
John B. M. V. Röttinger
By his Attorney
Arde Bonneville

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2 SHEETS—SHEET 2.

Fig 2

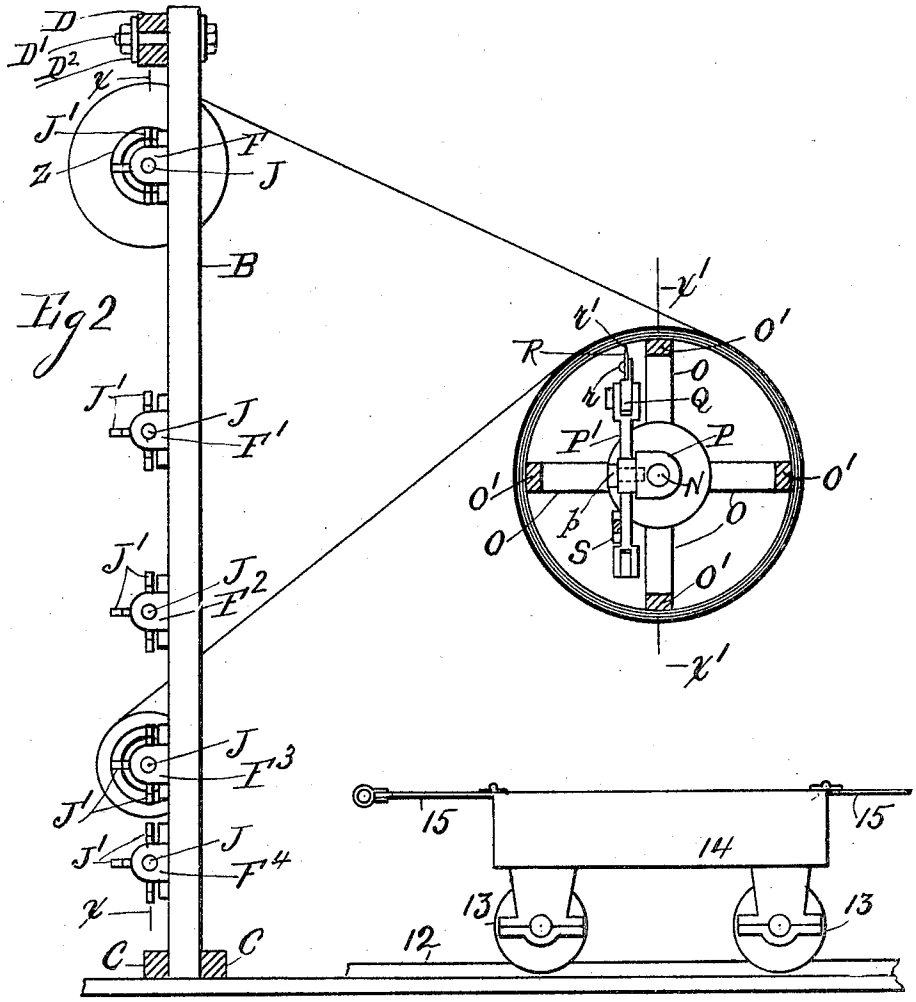


Fig 3

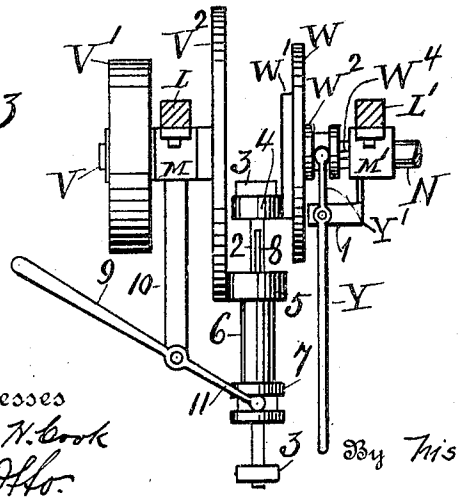
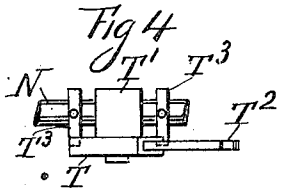


Fig 4



Witnesses
Myron N. Cook
O. Ofto.

Inventor
John B. M. V. Röttinger
By His Attorney
Alex de Bomeville

UNITED STATES PATENT OFFICE.

JOHN B. M. V. RÖTTINGER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO JAKE B. PRICE, OF NEW YORK, N. Y.

MACHINE FOR REMOVING AND CUTTING MATERIAL FROM CORES.

No. 808,578. Specification of Letters Patent. Patented Dec. 26, 1905.

Application filed March 24, 1905. Serial No. 251,816.

To all whom it may concern:

Be it known that I, JOHN B. M. V. RÖTTINGER, a citizen of the United States, and a resident of the borough of Manhattan, city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Machines for Removing and Cutting Material from Cores, of which the following is a specification.

This invention relates to means for removing paper or other material from cores, spindles, and the like and cutting the same into sheets. Its organization consists of a machine for removing paper or other material from cores, and among its essential elements are adjustable supports for the said cores and a reel adjacent thereto for winding the paper or other material thereon. A knife is connected up with the reel for cutting the said paper or other material.

In the drawings, Figure 1 represents a front elevation of the invention with partial sections of Fig. 2 as on the lines x x and x' x'. Fig. 2 is an end view of Fig. 1 with a partial section on the line x^2 x^2. Figs. 3 and 4 show plan views of portions of Fig. 1.

The invention comprises framing with the stationary upright A and upright B, which latter is adjustable between the guides C and along the girders D, a bolt D′, with washers D^2, clamping the upright B and girders D together. On the upright A are mounted the journal-bearings E E′ E^2 E^3 E^4, with the bolts e. On the upright B are mounted the journal-bearings F F′ F^2 F^3 F^4, with the bolts f. The journal-bearings E, &c., carry spindles G, each of which has mounted on one end thereof a tapering spring-support comprising the springs G′, which are clamped to the spindles G by means of the collars G^2, the ends g of the springs being generally bent over the end of the spindle G. Collars H are fastened to the spindles G by means of screws h. In the journal-bearings F, &c., are mounted similar spindles J, generally somewhat longer than the spindles G, and which each have a tapering spring-support, consisting of the springs J′, secured on the spindles J by means of the collars J^2, the ends j of the springs J′ being generally bent over the end of the spindle. Collars K are secured on the spindles J by means of screws k'.

To the rear of the frame with the uprights A and B are secured uprights L, L′, and L^2, the two latter of which carry journal-bearings M′ and M^2 by means of bolts m' m^2. In the said bearings M′ M^2 is supported an axle N, which carries a reel comprising the ends O and longitudinal members O′. The ends O are connected to the flanged supports O^2, which in turn are fastened to the said axle N.

Supports P are fastened to the axle N and to which are journaled the levers P′ on the pivots p. The levers P′ are connected by the link P^2, and the other ends of the levers P are connected to the knife-support Q, to which latter is fastened the knife R by means of the screws r. The cutting edge r' of the knife may be curved, as shown, or straight. To one of the levers P′ is pivoted a link S, which latter is connected with a lever T, that is pivoted to a support T′, the latter being carried on the axle N. The lever T contains a socket for an operating-handle T^2, which can be removed. Stops T^3 are adjustably fastened to the axle N to control the movements of the lever T.

On the left-hand side of the axle N is supported the shaft V, with the pulley V′ and disk V^2, the journal-bearing M being fastened to the upright L. On the end of the axle N is carried the disk W, with the central projection W′ and grooved collar W^2, a eather W^4 extending from the axle N and fitting the said grooved collar W^2 and disk W. A lever Y, with its forked end Y′ fitting the groove of the collar W^2, is pivoted on a bracket 1, extending from the upright L′. A shaft 2 is supported in bearings 3, and on the latter shaft is fastened the roller 4, which is located to engage with the projection W′ of the disk W. A second roller 5, connected with a sleeve 6 and grooved collar 7, is arranged to slide on the shaft 2, a feather 8 being interposed between the shaft 2 and the roller 5 with its sleeve 6. A lever 9 is pivoted to a bracket 10, that extends from the upright L, and the forked end 11 of the lever 9 is engaged by the grooved collar 7.

To the rear of the frame carrying the spring-supports and under the reel are secured rails 12 for the wheels 13 of a truck 14. Sides 15 are hinged from the body of the truck, which sides can be pulled up and the ends thereof

connected by a chain and the like to prevent the material carried thereon from falling off.

To use the invention, cores like Z Z′ are each placed on a pair of the spring-supports, the spindles J being moved to the right by loosening the collars *k′* to allow the cores to be put in place on the springs G′ on left-hand side of the frame, after which the spindles J, with the springs J′, are pushed up into the cores and the collars *k′* again fastened. The springs will tightly grip the cores in place. Although only two cores, each with a roll of paper thereon, are shown in the drawings, it is evident that a core may be placed on all of the pairs of supports. The ends of the rolls of paper are then placed and wound around the reel, which latter is then caused to turn by moving the lever Y so that the projection W′ of the disk W engages with the roller 4. The roller 5 is driven by the disk V^2, and the speed of said roller 5 can be varied by moving the same on the shaft 2 by means of the forked lever 9, because different speeds are given to the roller 5 when it is engaged with the disk V^2 at different distances from the axis of the shaft V. When it is desired to stop the reel turning, the disk W, with its projection W′, is brought out of engagement with the roller 4. After a sufficient number of thicknesses of paper have been wound around the reel the knife R is made to cut the same by operating the handle T^2, the depth of the cut of the knife being controlled by the stops T^3 on the axle N. After the paper has been cut the sheets are allowed to fall on the truck 14, when the hinged sides 15 are swung up and connected by a chain, so as to prevent the paper falling off of the said truck.

Having described my invention, I claim—

1. In a machine the combination of revoluble spring-supports for cores, and means to revolve the said supports.

2. In a machine the combination of adjustable revoluble spring-supports for cores, a reel with its axis parallel to the axial lines of the said supports, means to turn the reel, and thereby wind thereon sheets of material from the said cores.

3. In a machine the combination of revoluble adjustable spring-supports for cores, a reel with its axis parallel to the axial lines of said supports, means to turn the reel and thereby wind thereon sheets of material from the said cores, and a cutting device on the reel to cut the said sheets of material wound thereon.

4. In a machine the combination of revoluble adjustable spring-supports for cores, a reel with its axis parallel to the axial lines of said supports, means to turn the reel at variable speeds, and thereby wind thereon sheets of material from the said cores, and a cutting device on the reel to cut the said sheets of material wound thereon.

5. In a machine the combination of revoluble adjustable spring-supports for cores, a reel with its axis parallel to the axial lines of said supports, means to turn the reel and thereby wind thereon sheets of material from said cores, a knife pivoted with the reel, and means to operate the knife through different thicknesses of material on the reel.

6. In a machine the combination of a frame, a stationary and an adjustable upright in the frame, revoluble spring-supports extending from the uprights, each pair of supports being axially in line with each other, the supports arranged to carry cores for unwinding therefrom sheets of paper, a reel parallel to the axes of the supports to wind thereon the paper from the cores, and means to turn the reel.

7. In a machine the combination of a frame, revoluble spring-supports extending from the frame and arranged to carry cores, a reel parallel to the axes of the said spring-supports, a knife connected up with the reel and arranged to cut material on the reel, a lever to move the knife, means to control the depth of the cut of the knife and means to turn the reel and thereby unwind material from the cores, and onto the reel.

8. In a machine the combination of a frame, pairs of adjustable revoluble spring-supports connected up with the frame, and arranged to tightly grip cores carrying material thereon, a reel parallel to the axes of each pair of said supports, an axle for the reel, supports fastened to the axle, levers pivoted to the latter supports, a link connecting the levers at one end, a knife-support connecting the levers at the other end, a knife fastened to the knife-support, a second link extending from one of the levers, a third lever pivoted to the end of the latter link, a third support on the axle to which is pivoted the third lever, stops on the axle to control the movements of the third lever, and means to turn the reel.

9. In a machine the combination of a frame, pairs of adjustable revoluble spring-supports connected up with the frame and arranged to tightly grip cores carrying material to be unwound therefrom, a reel parallel to the axes of the said spring-supports, a knife connected up with the reel to cut material wound thereon, an axle for the reel, a disk arranged to slide on a feather at one end of the axle, a collar extending from the disk, a forked lever engaging said collar, a second disk axially in line with the first disk, means to turn the second disk, a shaft at right angles to the axle and located between the adjacent faces of the disks, a roller fastened to the shaft and arranged to engage with the disk on the axle,

a second roller arranged to slide on the second shaft and engage with the second disk, and means to engage the second roller and second disk, at variable distances from the axis of the second disk.

Signed in the borough of Manhattan, city of New York, in the county of New York and State of New York, this 20th day of March, A. D. 1905.

JOHN B. M. V. RÖTTINGER.

Witnesses:
H. M. HEWITT,
RUDOLPH A. FABOSKE.