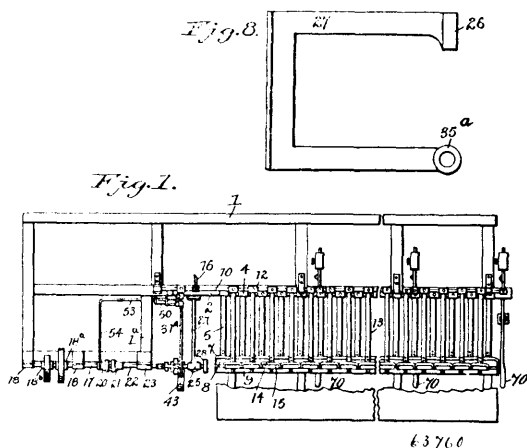


carried by said sleeve, a rod secured at one end in said arm, and an arm 30 adjustably mounted on said rod and extending downward and outward therefrom and having a lower knife edge, the knife edges of the arms 27 and 30 opposing each other and the outer ends of said arms being normally arranged at such distance apart as to permit but a single sheet of paper to pass freely between them, substantially as described.

**No. 63,760. Hose Machine.** (*Machine à boyau.*)

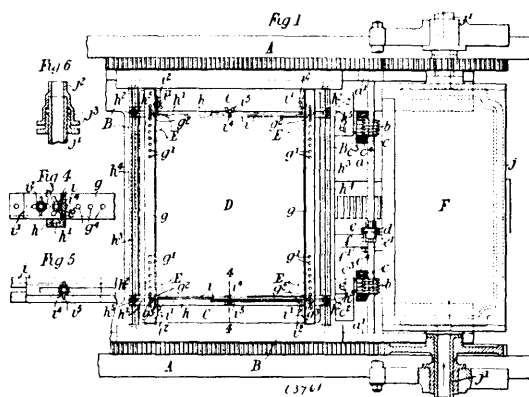


Samuel K. Wilson, assignee of Robert T. Burchell, both of Trenton, New Jersey, U.S.A., 1st September, 1899; 6 years. (Filed 7th December, 1898.)

**Claim.**—1st. In a long hose machine, the combination with a mandrel driving shaft provided with means whereby one end of a hose mandrel or pole may be secured thereto, of two parallel series of short rollers which support and carry said mandrel or pole, a rock shaft, a series of spring arms carried by said rock shaft, a third series of short rollers journaled to the said arms, and lying above and centrally of the supporting and carrying rollers, and means for regulating the tension or pressure of the said rollers, substantially as specified. 2nd. In a hose machine, the combination with a mandrel driving shaft provided with means whereby one end of a hose mandrel or pole may be secured thereto, of two parallel series of short rollers which support and carry said mandrel or pole, a rock shaft, a series of spring arms carried by said rock shaft, a third series of rollers carried by the said arms and lying above and centrally of the supporting and carrying rollers, means whereby said rollers may be put under tension, and properly positioned with respect to the mandrel before the latter commences to turn, and means for subsequently automatically bringing the driving devices for said mandrel into operation, substantially as specified. 3rd. In a long hose machine, the combination with a driving shaft for one end of the hose pole or mandrel, the mandrel carrying and supporting rollers, the series of short pressure rollers, the series of spring arms which carry the same, the rock shaft which carries the said arms and which also has a rigid arm, a strap or the like connected at one end to the said rigid arm, a rotary shaft having a loose disc thereon to which the other end of the said strap is connected, a friction device whereby said disc under certain conditions turns with the said shaft, and a clutch device for controlling the operation of the friction device, substantially as specified. 4th. In a hose machine, the combination with a series of pressure rollers, and with a rock shaft which carries the same, of a rotary shaft, a slidable clutch section thereon, an opposing loose clutch section having lugs thereon, an adjacent loose pulley having a boss, a friction strap on the said pulley and provided with lugs adapted to be engaged by the lugs of the adjacent clutch section, a band or strap connected at one end to the said boss, and at its opposite end to an arm of the said rock shaft, and means for actuating said sliding clutch section, substantially as specified. 5th. In a hose machine, the combination with a mandrel driving shaft formed in two sections, and a clutch coupling which connects the said sections, of a rock shaft, a series of pressure rollers carried thereby, means for actuating the said shaft to put said rollers under tension, and an automatic clutch operating device connected with said clutch coupling and operated by the movement of the said rock shaft to throw the said coupling into and out of operative engagement, substantially as specified. 6th. In a hose machine, the combination with the mandrel driving shaft formed in two sections, the clutch coupling which connects the two sections, the series of pressure rollers, the rock shaft which carries the said rollers, and means for actuating said shaft in both directions, of the clutch shifting rod, the spring for moving said rod in one direction, the lever operated by the backward movement of the rock shaft to move said rod in the opposite direction, the trip rod which normally holds the shifting rod against the action of its said spring, and an adjustable device carried by the said rock shaft for releasing the said trip rod, substantially as specified. 7th. In a hose machine, the combination with the series of pressure rollers,

and the rock shaft which carries the said rollers and which has also a rigid arm, and with a clutch coupling device which controls the operation of the mandrel driving shaft, of the automatic clutch shifting device, consisting of the shifting rod, a spring which moves the said rod in one direction, a trip device which holds the said rod against the action of the said spring, an adjustable device carried by the arm of said rock shaft and arranged to contact with the said trip device to release its engagement with the shifting rod, and a lever connected to the said arm of the rock shaft and arranged to move said shifting rod in the opposite direction, substantially as specified. 8th. In a long hose machine, using a mandrel which is connected to the machine at one end only, the two series of short yielding rollers which support and carry the said mandrel, a rock shaft, a series of spring arms carried by the said shaft, a short roller journaled to the free end portion of each of the said arms and adapted to bear on the mandrel, a mandrel driving shaft, means for actuating the rock shaft, to apply pressure to the said rollers, means for regulating the degree of pressure, and an automatically operating clutch device for throwing the mandrel driving shaft into and out of driving connection with the mandrel, substantially as specified. 9th. In a long hose machine, a mandrel driving shaft, a clutch device for controlling the operation of the same, the yieldingly supported carrying rollers for the mandrel, the series of short pressure rollers, means for putting said pressure rollers under tension, and means whereby the mandrel driving shaft remains inoperative until said rollers are properly tensioned and positioned, with respect to the mandrel, substantially as specified. 10th. In a hose machine, a mandrel driving shaft having means for holding one end of the mandrel, two parallel series of short holding and carrying rollers for the mandrel, a series of short rollers lying above and centrally of the holding and carrying rollers, spring arms which carry the upper series of rollers, and means for putting said arms under tension, said several series of rollers being arranged to break joints with each other, substantially as specified.

**No. 63,761. Polychrome Printing Machine.** (*Machine polychrome à imprimer.*)



Henry de Monton, New Southgate, Middlesex, and The Simultaneous Colour Printing Syndicate, London, both in England, 5th September, 1899; 6 years. (Filed 18th February, 1899.)

**Claim.**—1st. In a polychrome printing machine, the combination with the main frame of a reciprocating box mounted therein, a vertically movable colour block support carried by said box, adjustable guides secured to said box, and adjustable laterally and transversely thereof to engage colour blocks of different sizes, and automatic mechanism for elevating said support whereby the colour block will be forced upward between said adjustable guides, substantially as described. 2nd. In a polychrome printing machine, the combination with the main frame, of the colour block carrying box provided with parallel slotted portions adjacent to opposite sides of the same, the vertically movable colour block support mounted in said box, parallel slotted plates engaging said portions, of the box provided with securing devices engaging said slotted portions, a pair of parallel guide plates lying upon said slotted plates transversely thereto, and provided with vertical portions to engage the colour block and with adjusting devices engaging said slotted plates and a pair of longitudinally adjustable guide plates lying upon, secured to and disposed transversely of the first named guide plates, substantially as described. 3rd. In a polychrome printing machine, the combination with the main frame, of the colour block carrying box, provided with parallel slotted portions adjacent to opposite sides of the same, the vertically movable colour block support mounted in said box, parallel slotted plates engaging said portions, of the box and provided with securing devices engaging said slotted portions, a pair of parallel guide plates lying upon said slotted plates transversely thereto and provided with vertical portions to engage the colour block and with adjusting devices engaging said slotted plates and a pair of longitudinally adjustable guide plates having over lapping portions, and end portions perpendicular to the main portions, lying between said first named