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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years The term of years for which the fee has been paid, is given after the date of the patent.

No. 29,261. File for Letters, Papers, Bills, etc. (*Serre-papier.*)

William A. Cooke, jr., and Charles S. Cooke, Brooklyn, N.Y., U.S., 1st June, 1888; 5 years.

Claim.—1st. In paper files, the combination of a base and arched wire having one end connected with the base end, the opposite end free, the said wire being susceptible of longitudinal and vibratory motion in sequence, a fixed wire with which the free end of the arched wire interlocks when in alignment therewith, and a spring which steadies the movement of the arched wire and holds it when open and closed, and when its free end aligns with the fixed wire, automatically moves the arched wire longitudinally and causes its free end to interlock with the fixed wire, substantially as specified. 2nd. The combination of a base, an arched wire having one end connected with the base, and the opposite end free, the said wire being susceptible of limited longitudinal and vibratory motion in sequence, a fixed wire with which the free end of the arched wire interlocks when in alignment therewith, and a holding and steadying spring which, when the free end of the movable wire aligns with the fixed wire, automatically throws its free end into conjunction with the end of the fixed wire, substantially as specified. 3rd. The combination of two separate bases 4, 4, two separate arched transfer or keeper wires 9, 9, each having its leg *b* connected with one of the said bases, and the other end free, said wires each being susceptible of positive longitudinal and vibratory motion in sequence, fixed wires 2, 2, and bases 3, 3, the free ends of the movable wires interlocking with the fixed wires when aligned therewith, and springs which connect with the movable wires, steadying them in their movements, and holding them when open and closed, and, when their free ends align with the fixed wires, automatically move the arched wires longitudinally and cause their free ends to interlock with the fixed wires, substantially as specified. 4th. The combination of the fixed wire 2, the arched transfer or keeper wire 9, connected with a suitable base and susceptible of being moved vertically and vibrated axially therein, and provided with the foot 10, and the stop 12 having its end *k* terminated short of a line joining the adjacent side of the foot 10, and the fixed wire, substantially as specified. 5th. The combination of a fixed wire, an arched transfer or keeper wire connected with a suitable base and susceptible of being moved longitudinally and vibrated axially in its base, and provided with a foot 10, and a stop 12 having its end *k* terminated short of a line joining the adjacent side of the foot and the fixed wire, and provided with a stop *c*, substantially as specified. 6th. The combination of a fixed wire, an arched transfer or keeper wire connected with a suitable base and susceptible of longitudinal and vibratory movement therein, and provided with a foot 10, and a stop 12 having a horizontal edge *f*, and inclined edge *g*, substantially as specified. 7th. The combination of a fixed wire, an arched transfer or keeper wire connected with a suitable base, and susceptible of longitudinal and vibratory movement therein, and provided with a foot 10, a stop 12, a stop 13, and a slot 14 between the stop 12 and the adjacent end of the stop, substantially as specified. 8th. The combination of the arched transfer or keeper wire connected with a suitable base and susceptible of being moved vertically and vibrated axially therein, and provided with a foot 10, the stop 12 and the spring *a*, substantially as specified. 9th. The combination of the fixed wire, the longitudinally movable and vibratory transfer or keeper wire provided with the foot 10, the hollow pyramidal base 4, and the foot plate 11 provided with the step 12, substantially as specified. 10th. The combination of the fixed wire, the longitudinally movable and vibratory transfer or keeper wire provided with the foot 10, the hollow pyramidal base 4, and the foot plate 11 provided with the step 12 and stop 13, and the foot notch or slot 14 between them, substantially as specified. 11th. The combination of the two fixed wires, the movable transfer or keeper wires, the hollow pyramidal bases 4, 4, and the detachable plate 11, with the steps 12, 12, and stops 13, 13 cast thereon, substantially as specified. 12th. The combination of the tubular sleeve or guide 7 with the longitudinally moving and laterally vibrating transfer or keeper wire connected with a suitable base, substantially as specified.

No. 29,262. Transferring Paper File and Binder. (*Serre-papier et reliure.*)

William A. Cooke, jr., and Charles S. Cooke, Brooklyn, N.Y., U.S., 1st June, 1888; 5 years.

Claim.—1st. A transferring file for detaching papers from a temporary file, conveying them to, and connecting them with, the fixed members of a binder, consisting of two tubes united together at the lower ends by a bar, substantially as specified. 2nd. A transferring file for taking papers off a temporary file, and connecting them with the fixed members of a binder, consisting of a tube provided with an enlarged base, substantially as specified. 3rd. The combination of the transferring file composed of united tubes 20, 20, which form the detachable members of the binder, with the wires 17, 17, having balls *k* on the ends, and the studs 18, 18, substantially as specified. 4th. The combination of the transferring file composed of united tubes 20, 20, and the fixed wires of a temporary binder, substantially as specified. 5th. The sequent combination of the tubular transferring file, the fixed wires of a temporary file, and the fixed members of the binder, substantially as specified. 6th. The combination of the fixed arched wires 17, 17, having balls *k* on their ends, the plate B, the studs 18, 18, and the detachable tubes 20, 20, forming transferring files, substantially as specified. 7th. The combination, in a binder, of the fixed arched wires 17, 17, having balls *k* on the ends, the plate B, the studs 18, 18, stops 19 and detachable members 30, substantially as specified. 8th. The transferring file consisting of a tube having a longitudinal slit and an enlarged base, substantially as specified. 9th. The combination of the fixed members of a binder, and the detachable member forming also the transferring file connected rigidly at both ends with the fixed member, substantially as specified.

No. 29,263. Paper Filing Index.

(*Index serre-papier.*)

William A. Cook, jr., Brooklyn, N.Y., U.S., 1st June, 1888, 5 years.

Claim.—1st. In paper filing indexes, a series of disconnected leaves of equal length and having the index letters on opposite edges, substantially as specified. 2nd. An index composed of leaves having the index letters attached to opposite edges, and on both sides of each leaf, the letters on the reverse side being in an inverted position relatively to the letters on the obverse side, substantially as specified. 3rd. In interlocking index composed of leaves having index letters on both sides of opposite edges of the leaves, and having the letters on the reverse side inverted and the next in order to the letters on the obverse side, substantially as specified. 4th. An index composed of detached leaves and consisting of two divisions, the leaves in each division being provided with index letters, the letters of one division being on the opposite edges from the letters in the other division, substantially as specified. 5th. In combination with a letter file, composed of fixed and movable wires, index leaves provided with perforations on one edge for the wires, and index letters on both sides of the edges of the leaves, the letters on one side being in a reversed position from those on the other side so that the index letters are visible when the leaves are on either the fixed or movable wires, or part on one and part on the other, substantially as specified.

No. 29,264. Manufacture of Boots and Shoes. (*Fabrication des chaussures.*)

Fabien Rivard, Louis Chevalier and Honoré Météyor, Montreal, Que., 1st June, 1888; 5 years.

Claim.—The art of manufacturing moccasin boots or shoes, consisting in sewing the sole to the upper and insole prior to forming the latter on the last, and while it is yet in a flat or extended condition, substantially as herein described and for the purpose set forth.

No. 29,265. Machine for Lasting Boots and Shoes. (*Machine à enformer les chaussures.*)

The Shoe Lasting Machine Company, New York, N.Y., (assignee of Frank Chaso, Boston, Mass.), U.S., 1st June, 1888; 5 years.

Claim.—1st. The combination of the wiper carriage, the wipers, the freely oscillatory clasp supports mounted on said carriage but disconnected from, and movable independently of said wipers, and the