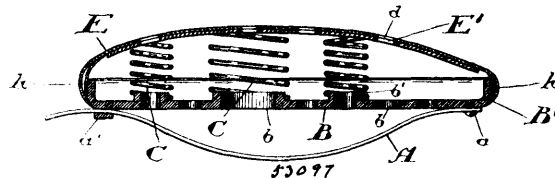


by side and connected together at one end so as to form a closed bottom for supporting the lower edges of the envelopes in that side of the chain, and free at the opposite end so as to provide an unobstructed passage to the bottom delivery of the envelopes, carried by that side of the chain, substantially as described. 2nd. The combination with an envelope machine, of a drying chain composed of a series of connected links, each of which is adapted to hold two or more envelopes side by side thereon, and means for pushing the envelopes from one side of the chain to the other, substantially as and for the purpose specified. 3rd. A drying chain for envelope machines composed of a series of connected links of plural capacity, one side of each link being provided with means for supporting the bottom edge of the envelope, and the other side provided with a flange adapted to press the envelope against the back of preceding link and hold the body of the envelope out of contact with the unsealed flap, substantially as described. 4th. The combination with the delivery of an envelope machine, of a drying chain composed of links adapted to hold two or more envelopes side by side, means for causing the chain to travel around its circuit, mechanism for pushing the envelopes from one side of the chain to the other at a certain point in the travel or circuit of said chain, and mechanism for striking and knocking the envelopes successively through the bottom of said chain at a given point in its travel, substantially as described. 5th. The combination with an envelope machine, of a drying chain having a receiving and delivery side, a shaft journaled below the delivery rolls of the envelope machine, or other delivery mechanism, a sprocket-wheel on said shaft meshing with the links of the drying chain, connections between said shaft and the driving shaft of the machine for intermittently rotating the said shaft, and mechanism for shifting the envelopes successively from the receiving to the delivery side of the chain, substantially as described. 6th. The combination with an envelope machine, of a drying chain adapted to hold two or more rows of envelopes side by side, mechanism for giving an intermittent motion to the drying chain, mechanism for pushing the envelopes successively from one side of the chain to the other, whereby the envelope may be caused to make nearly two or more circuits with the chain, substantially as described. 7th. The combination with an envelope machine, and the guide frames thereof, of a drying chain adapted to hold two or more rows of envelopes side by side, mechanism for giving intermittent motion to the drying chain, a bar slidably mounted upon the guard frames, mechanism for intermittently moving the said bar, a pusher rod extending diagonally across the line of travel of the envelopes, and connections between the bar and pusher rod for intermittently operating said rod, substantially as and for the purpose specified. 8th. The combination with an envelope machine, of the guide frames, and drying chain confined between the same, the intermittently rotating shaft journaled below the delivery of the machine and provided with a sprocket or spur gear, a casting loosely mounted upon said shaft, a ratchet wheel fixed to said shaft, having a pawl thereon engaging the ratchet wheel, a bar slidably mounted upon the guide frames and provided with a cam, a pusher rod fulcrumed upon a fixed part of the device, and extending diagonally across the receiving side of the chain, adapted to be engaged by the cam upon the sliding bar, substantially as and for the purpose set forth. 9th. The combination with the envelope machine, of the guide frames secured thereto, a drying chain adapted to hold two or more rows of envelopes confined between said frames, an intermittently rotating shaft journaled below the delivery of said envelope machine, a casting having a pawl thereon loosely mounted upon said shaft, a ratchet wheel fixed to the shaft, a sliding bar actuated from the casting and provided with a cam way mounted upon one of the guide frames, a tappet lever operated by the cam and extending across the line of travel of the chain with means for intermittently rotating the shaft, whereby the tappet is caused to strike the envelopes successively through the bottom of the chain, as they pass under the same, substantially as and for the purpose set forth. 10th. The combination with the intermittently moving drying chain, of the tappet lever fulcrumed upon the chain structure and extending across and above the line of travel of the envelopes, and normally out of contact therewith, mechanism for giving motion to said chain, and means for causing the tappet to strike the top edge of the envelopes successively as they pass thereunder to knock them through the bottom of the chain, substantially as and for the purpose set forth. 11th. The combination with an envelope machine or analogous structure, of a drying chain, a shaft journaled below the delivery of the machine around which said chain passes, connections between the machines and shaft for intermittently rotating the same, mechanism operated from said shaft to shift the envelopes successively from one side of the chain to the other, and mechanism operatively connected with said shaft for striking the envelopes successively through the bottom of the chain, substantially as described. 12th. The combination with the drying chain, the driving shaft therefor, mechanism for intermittently rotating the shaft, a bar provided with two oppositely acting cams slidably mounted upon a fixed part of the drying chain structure, a pusher rod adapted to be engaged by one of the cams and pivoted to the chain structure and extending diagonally across the top thereof, a bell-crank tappet lever adapted to be engaged to the other cam and pivoted to the chain structure and having one arm extending transversely above the chain and normally held out of contact with the envelopes in the said chain, with connections between said sliding bar and shaft, whereby movement of the sliding

bar in one direction as the chain pauses moves the pusher rod to throw the envelope beyond the central line of the chain and movement of the said bar in the opposite direction operates the tappet lever to strike an envelope through the bottom of the chain, substantially as described. 13th. The combination with the drying chain, of plural capacity, of the guide frames for supporting and confining the links of the chain, guide wires at each side of the links, guide wires between the receiving and delivery sides of the chain, and the bottom guide wires on the delivery side of the chain, substantially as described. 14th. The combination with the chain adapted to carry two or more rows of envelopes side by side, and composed of a series of links hinged together at one side by pintles or rods, of the guide frames for supporting and confining the chain having slide-ways upon which the end of the pintles are adapted to travel, and guide wires at each side of the links and between the adjacent rows of envelopes for confining the envelopes in their travel with the chain, substantially as described. 15th. A drying chain for envelope machines composed of a series of links, each adapted to hold two or more envelopes side by side, said links being provided at one side with lugs projecting in opposite directions therefrom, with flanges connecting the lugs on one of the sides of the links forming sleeves upon which the envelopes may rest, pintles passing through the lugs to hinge the links together at that side, and flanges projecting forwardly from the top of the other side of the link, the bottom of said side being open and free from obstruction, substantially as described. 16th. The combination of an envelope machine and the guide frames H, H', and the guide wires *h*, secured thereto, of the drying chain adapted to hold two or more rows of envelopes side by side confined between the same, the shaft journaled below the table of the machine, the pusher rod fulcrumed upon the guide frame H, the tappet lever likewise fulcrumed upon said guide frame, the guide frames H', and inner guide wires *h*, being interrupted between the said shaft and the tappet lever to permit the envelopes to be discharged through the bottom of the chain and to allow the envelopes to be shifted from one side of the chain to the other, connections between the machine and the shaft for intermittently rotating said shaft, with pusher and tappet mechanism, to push the envelopes successively from one side of the chain to the other and strike the same through the bottom thereof, substantially as described.

#### No. 53,097. Bicycle Saddle. (*Selle de bicyclette*.)



Lewis Edson Lawson, Toronto, Ontario, Canada, 4th August, 1896; 6 years. (Filed 29th June, 1896.)

*Claim.*—1st. A bicycle saddle having a base-plate suitably connected with the seat-post and shaped substantially as indicated, in combination with a flexible cover of similar outline and a series of springs arranged between the base-plate and flexible cover so as to support and hold the said cover in operative position, substantially as specified. 2nd. A bicycle saddle having a perforated base-plate, with spring connection to the seat-post, and shaped substantially as indicated, in combination with a perforated and flexible cover of similar outline, and a series of spiral springs arranged between the base-plate and flexible cover so as to hold the said seat in operative position, substantially as specified. 3rd. A bicycle saddle having a perforated base-plate of rigid material connected to the seat-post and shaped substantially as indicated, in combination with a perforated and flexible seat of similar outline and a series of springs so arranged between the base-plate and flexible seat as to form a normally dome-shaped seat, the whole being covered with a perforated covering, substantially as and for the purpose specified. 4th. A bicycle saddle comprising the following elements: curved spring A, centrally connected to the seat post; the base plate B, shaped as indicated; the spring C; flexible and movable seat D, and cover E, substantially as specified. 5th. In a bicycle saddle, the combination of a curved spring A, suitably connected to the seat-post; the perforated base-plate B, shaped as indicated, and provided with rim B' and shoulders b' surrounding the openings b; the spiral springs C; the flexible and normally dome-shaped seat D provided with perforations d; and the cover E, with perforations E', substantially as specified. 6th. In a bicycle saddle, the combination of curved spring A, centrally connected to the seat-post and riveted at one end to the bottom of the base-plate; keeper a; the perforated base-plate B; rim B' with rounded edge; shoulders b' surrounding the openings b in the base-plate; the flexible and movable seat D with perforations d; the spiral springs C; the cover E, with perforations E' and horse-hair packing L, substantially as described and for the purpose specified.