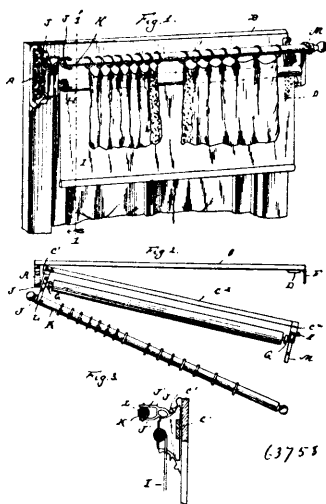


thereof, substantially as described. 2nd. The combination with a bracket secured at one side of the window casing, of a swinging



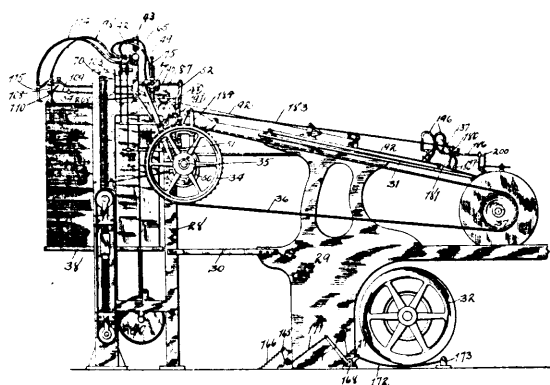
frame pivoted to said bracket, a supporting bracket on one end of the swinging frame provided with parallel arms, a curtain pole pivoted between said parallel arms so that it may be swung outwardly with the bracket or independently thereof, and a second supporting bracket supported at the opposite side of the window casing and provided with spring arms to receive and hold the free end of the pole, substantially as described. 3rd. In a window shade and curtain hanger, the combination with a bracket, secured to one side of a window frame, of a swinging frame hinged at one end to said bracket and extending transversely of the window frame, shade roller supports secured to the end pieces of said swinging frame, supporting brackets mounted upon ends of the end pieces of said swinging frame and each provided with a pair of parallel spring arms, a curtain pole arranged above the shade roller brackets and pivoted at one end between the spring arms of one of said supporting brackets and adapted to have its free end received and retained in the opposite supporting bracket, and means for securing the free end of the swinging frame to the window frame, substantially as described. 4th. In a window shade and curtain hanger, the combination, with a bracket secured upon one side of the window casing, of a swinging frame comprising and pieces connected by a bar extending transversely of the casing, one of said end pieces pivoted to said bracket and the other provided with a latch device to engage a keeper on the casing, a support on said casing to sustain the free end of the swinging frame, a shade roller mounted in the brackets secured to the inner sides of the end pieces of the swinging frame, a bracket secured upon the upper end of each of said end pieces and provided with outwardly projecting parallel spring arms, and a curtain pole pivoted at one end between the arms of one bracket and adapted to have its free end received by and retained in the arms of the other bracket, the construction and arrangement being such that said pole may be swung outwardly with the frame or independently thereof, substantially as and for the purpose described.

No. 63,759. Pneumatic Sheet Separating and Feeding Machine. (*Machine pour la separation et alimentation des feuilles pneumatiques.*)

Lewis Benedict, assignee of George Frederick Leiger, both of Chicago, Illinois, U.S.A., 5th September, 1899; 6 years. (Filed 30th June, 1899.)

Claim.—1st. In a pneumatic sheet feeding machine, the combination with a reciprocating carriage, a pneumatic picker mounted upon said carriage, and means for automatically controlling the air pressure in said picker, of mechanism adapted to reciprocate said carriage and to temporarily hold said carriage stationary at its rearward position before moving it forward, substantially as described. 2nd. In a pneumatic sheet feeding machine, the combination with a reciprocating carriage, an extensible pneumatic picker mounted on said carriage and adapted to engage with the surface of a sheet of paper, means for automatically controlling the air pressure in said picker, and means for automatically raising said picker as soon as it engages with the sheet, of mechanism adapted to reciprocate said carriage and to temporarily hold it stationary at its rearward position before moving it forward, substantially as described. 3rd. In a pneumatic sheet feeding machine, the combination with a reciprocating carriage, an extensible pneumatic picker mounted on said carriage and adapted to engage with the surface of a sheet of paper,

means for automatically controlling the air pressure in said picker, and means for automatically raising said picker as soon



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as it engages with the sheet, of mechanism adapted to reciprocate said carriage and to temporarily hold it stationary at its rearward position before moving it forward, and means for blowing a blast of air under the sheet while said carriage is held in its rearward position, substantially as described. 4th. In a sheet feeding machine, the combination with a carriage, mechanism for reciprocating the same, extensible picker mechanism carried by said carriage and adapted to engage a sheet of paper, valves controlling said pickers, and mechanism adapted to automatically open and close said valves as said carriage reciprocates, of pneumatically operated mechanism adapted to positively lift said picker mechanism before the forward movement of said carriage begins and to allow said picker mechanism to drop at the rearward limit of the motion of said carriage, substantially as described. 5th. In a sheet feeding machine, the combination with a carriage, mechanism for reciprocating the same, extensible picker mechanism carried by said carriage and adapted to engage a sheet of paper, valves controlling said pickers, and mechanism adapted to automatically open and close said valves as said carriage reciprocates, of a spring actuated rod adapted to engage said picker mechanism and normally raise and hold the same in a raised position, pneumatically operated mechanism adapted to temporarily force said spring actuated rod downward to allow said picker mechanism to fall and engage with the sheet, valves controlling said pneumatically operated mechanism, and mechanism adapted to automatically open and close said valves, substantially as described. 6th. In a sheet feeding machine, the combination with a carriage, mechanism for reciprocating the same, extensible picker mechanism carried by said carriage and adapted to engage a sheet of paper, valves controlling said picker mechanism, and mechanism adapted to automatically open and close said valves as said carriage reciprocates, of a spring actuated rod adapted to engage said picker mechanism and normally raise and hold the same in a raised position, pneumatically operated mechanism mounted on said carriage and adapted to temporarily force said spring actuated rod downward to allow said picker mechanism to fall and engage with the sheet, valves controlling said pneumatically operated mechanism, and mechanism adapted to automatically open and close said valves, substantially as described. 7th. In a sheet feeding machine, the combination with a carriage, mechanism for reciprocating the same, extensible picker mechanism carried by said carriage and adapted to engage a sheet of paper, valves controlling said picker mechanism, and mechanism adapted to automatically open and close said valves as said carriage reciprocates, of a spring actuated rod adapted to engage said picker mechanism and normally raise and hold the same in a raised position, a cylinder mounted on said carriage, a piston mounted in said cylinder and connected with said spring actuated rod, a vacuum tube connected with said cylinder below said piston, valves controlling said vacuum tube, and mechanism adapted to automatically open and close said last named valves as said carriage reaches its rearward position, substantially as described. 8th. The combination with a pneumatic picker, of a flexible cup mounted on said picker and adapted to engage with a sheet of paper, and a clamp adapted to adjustably compress said cup laterally, substantially as described. 9th. The combination with an extensible pneumatic picker, of a flexible cup mounted on said picker and adapted to engage with the surface of a sheet of paper, clamps bearing on said cup, and a thumb screw engaging said clamps and adapted to adjustably compress said cup laterally, substantially as described. 10th. In a sheet feeding machine, the combination with mechanism adapted to engage the front end of a sheet and feed the same forward, an extensible picker mechanism adapted to engage the rear end of the sheet, a vacuum tube connected with said extensible picker mechanism, valves controlling said vacuum tube, and mechanism adapted to automatically open and close said valves a plurality of times before said sheet engaging and forwarding mechanism begins to forward the sheet, substantially as described. 11th. In a sheet feeding machine, the combination with mechanism adapted to engage the front end of a