

**No. 29,425. Seal Lock for Freight Cars.***(Serrure à cachet pour chars à marchandises.)*

Le Roy C Godwin, Portsmouth, Va., U.S., 3rd July, 1888; 5 years.

*Claim.*—1st. In a door lock, the combination, with a casing secured to the car door, of a frame held to slide in the said casing and provided with slots for the reception of a ticket or card, and a tumbler plate pivoted in the said casing and passing through the said frame being adapted to engage the car door post, substantially as shown and described. 2nd. In a door lock, the combination, with a casing secured to the car door, of a frame held to slide in the said casing, and provided with slots for the reception of a ticket or card, a tumbler plate pivoted in the said casing and passing through the said frame, and a cam turning on the pivot of the said tumbler plate, and adapted to be engaged by a projection on one side plate of the said frame, substantially as shown and described. 3rd. In a door casing, the combination, with a casing secured to the car door, of a frame held to slide in the said casing, and provided with slots for the reception of a ticket or card, a tumbler plate pivoted in the said casing and passing through the said frame, a cam turning on the pivot of the said tumbler plate, and a pin secured to the said tumbler plate and operating on one edge of the said cam, substantially as shown and described. 4th. In a door lock, the combination, with a pivoted tumbler plate having a lug on its front edge, of a frame through which said tumbler plate passes, and provided with slots and lugs projecting into the said slots, so as to hold a card or ticket in place in the said slots at the front edge of the said tumbler plate, substantially as shown and described.

**No. 29,426. Rivetting Machine.***(Machine à river.)*

Judson I. Thomson &amp; Co., assignees of Jacob J. Unbehond, Syracuse, N.Y., U.S., 3rd July, 1888; 5 years.

*Claim.*—1st. The combination of the pivoted stock A, rivetting block B having a screw G and nut C, substantially as and for the purpose set forth. 2nd. The combination of the stock A, rivetting block B, provided with the adjustable shoe holder D, the plunger P, spiral K and spring H, having the stud I taking in the recess L in the screw G, substantially as and for the purpose set forth. 3rd. The combination of the stock A having the tongue a, the rivetting block B having the screw G, provided with the vertical groove a' for the tongue a of the stock, and the nut C, all substantially as and for the purpose set forth. 4th. In a rivetting machine, the combination of a rivetting block having a screw-threaded shank mounted in a stock A, a nut C for adjusting the rivetting block, the nut being provided with vertical grooved shaped serrations c, and a spring lever or stop secured to the stock, and having a projection taking in the serrations in the nut to prevent it from turning, substantially as and for the purpose set forth. 5th. The combination of the vertically adjustable rivetting block having the screw shank G mounted in the stock A, and the plunger P, the screw shank G being provided with a screw P<sub>1</sub> against which the plunger P operates, the screw P<sub>1</sub> serving to compensate for the vertical adjustment of the rivetting block without changing the stroke of the plunger, substantially as and for the purpose set forth.

**No. 29,427. Rivetting Machine.***(Machine à river.)*

Judson I. Thomson &amp; Co., assignees of Judson I. Thomson and Jacob J. Unbehond, Syracuse, N.Y., U.S., 3rd July, 1888; 5 years.

*Claim.*—1st. The herein described rivetting machine comprising an automatic feed for feeding the rivets to the heading mechanism, for distributing and arranging the rivets circumferentially on the heel of the arctic or overshoe, and means, substantially as described, for cutting off the feed automatically while the rivets are being clinched by the heading mechanism, all constructed and operating substantially as and for the purpose set forth. 2nd. The combination, in a rivetting machine, for inserting rivets in the heel of an arctic or overshoe, of feeding mechanism for automatically feeding the rivets to the heading mechanism, for distributing and arranging the rivets circumferentially on the heel of the overshoe, means, substantially as described, for forcing the rivets into the heel, and a combined adjustable rivetting block and shoe holder, substantially as and for the purpose set forth. 3rd. The combination, in an automatic rivetting machine, of a receptacle or hopper for the rivets having passages or discharge openings enlarged at their lower ends for the exit of the rivets therefrom, means substantially as described, for forcing the rivets to, and into the discharge openings, and means, substantially as described, for compelling the rivets to enter the feeding tubes shank foremost, substantially as and for the purpose set forth. 4th. The combination, in an automatic rivetting machine, of a receptacle or hopper for the rivets, brushes, and a solid wing, all depending from an oscillating frame in the hopper oscillating over openings in the bottom of the hopper, said openings being enlarged at one end and covered with a plate for feeding the rivets shank foremost into the feeding tubes, a feeding tube connected to the receptacle for conveying the rivets to the heading mechanism, and a cut-off in the exit end of the tube operated by the descent of the rivet forcing punch, and a rivet forcing punch for discharging the rivets one at a time and forcing the same into the overshoe, substantially as and for the purpose set forth. 5th. In a rivetting machine, an automatic feed for feeding the rivets to the heading mechanism, for distributing the rivets circumferentially on the toe or heel of the arctic or overshoe, means, substantially as described, for cutting off the feed automatically while the rivets are being clinched by the heading mechanism, and means substantially as described, for guiding the rivets to enter the washer plate when forced into the sole or heel of the overshoe, substantially as and for the purpose set forth. 6th. The combination of an automatic feeding receptacle or hopper, having a conical bottom provided with openings enlarged at their lower ends, said enlargement being covered by a plate depending oscillating brushes, and a solid wing or sweep oscillating on the bottom of said hopper for feeding the rivets shank foremost into conveying feed tubes, a

series of conveying feed tubes connected to the receptacle and having their exit or discharge ends arranged in the arc of a circle to distribute the rivets circumferentially on the heel or toe of an overshoe, substantially as described. 7th. The combination, with an automatic feed receptacle or hopper for feeding the rivets shank foremost into conveying feed tubes, of a series of conveying feed tubes connected to the hopper, and a series of punches or plungers, the feed tubes having their exits or discharge ends arranged in the arc of a circle, to distribute the rivets circumferentially on the heel or toe of an overshoe, and the punches or plungers arranged to pass through the discharge ends of the tubes, and force the rivets into the heel or toe of the overshoe, substantially as and for the purpose set forth. 8th. The combination, of a feed receptacle having in the bottom thereof an elongated opening enlarged at one end, the enlargement being covered by a plate, a feed tube connected to the opening to receive the rivets, and a screw in the upper end of the tube to turn the rivets shank foremost, substantially as and for the purpose set forth. 9th. The combination, with the spring discharge valve, of a pivoted guide embracing the spring valve or valve, and a punch or plunger for operating to remove the guide as the rivet is forced out of the spring gate by the plunger in its descent, substantially as and for the purpose set forth. 10th. The combination, with the spring gate or exit at the discharge end of the feed conveying tube, of a guide embracing the said gate to hold the rivet against lateral displacement, as it is fed to and forced into the overshoe, substantially as and for the purpose set forth. 11th. The receptacle A having conical bottom B, discharge openings 5 with enlargement 6 and plate 7, in combination with the oscillating brushes 3 and conveying tubes 4, substantially as and for the purpose specified. 12th. The receptacle A having discharge openings 5, plate 7 and screw 8 extended into the path of the rivets as they drop into the conveying tubes B, in combination with the conveying tubes B, substantially as and for the purpose set forth. 13th. The combination of the receptacle A having conical bottom B, openings 5, feed conveying tubes B with spindle 2, brushes 3, lever 9 having slot 10, lever a pivoted at a<sub>1</sub> to lever K, slotted lever K pivoted to the bracket D and actuated by the lever G, substantially as and for the purpose set forth. 14th. The combination, of the plunger J carrying the punches c, of the toggles a, a', lever G, guide H, and the toggles a, a', lever L, toggle E and the connecting rod K, substantially as and for the purpose set forth. 15th. The combination of the punches c, and the combined rivetting block and shoe holder C, Cr, and means substantially as described, for returning them to their normal position after the rivets are inserted in an overshoe, substantially as and for the purpose set forth. 16th. The spring discharge valves b, made in one piece of spring metal bifurcated to form spring arms, elongated and provided with lips r, r near their exits, and secured to the depend a, a', substantially as and for the purpose set forth. 17th. The spring discharge valves b, made in one piece of spring metal bifurcated to form spring arms, and having the opening b<sub>1</sub>, substantially as and for the purpose set forth. 18th. The combination of the spring discharge valves b having slot or opening b<sub>1</sub>, with the discharge end of the feed conveying tube B having cut-off c, substantially as and for the purpose set forth. 19th. The combination of the discharge valves b, feed tubes B having cut-off c, and the fingers d, substantially as and for the purpose set forth. 20th. The combination of the fingers d, d secured on the support ar carried on the plunger head J<sub>1</sub>, and the cut-off c in feed conveying tubes B supported on the arc-shaped bracket a, substantially as and for the purpose set forth. 21st. The plunger head J<sub>1</sub> having a series of punches c, c arranged in the arc of a circle thereon, and depending therefrom, in combination with a like series of spring discharge valves b arranged in the arc of a circle underneath the punches, and a pivoted forked yoke O having arms o, o, o embracing the sides of the spring discharge valves, substantially as and for the purpose set forth. 22nd. The combination of the punch c carried on the plunger head J<sub>1</sub>, with the spring valve b, and the forked yoke O embracing the sides of the valve b, and pivoted to a support ar secured to the frame of the machine, the said yoke having the eccentric lever ar, lying in the path of the edge c of the plunger head J<sub>1</sub> in its descent, substantially as and for the purpose set forth. 23rd. The combination of the plunger head J<sub>1</sub>, punch c, spring valve b and yoke O, substantially as and for the purpose set forth.

**No. 29,428. Multiple Telegraph System.***(Système de télégraphe multiple.)*

Charles Selden, Baltimore, Md., U.S., 3rd July, 1888; 5 years.

*Claim.*—1st. A telegraph receiving instrument, consisting of two insulated arms carrying magnets at their extremities, controlling a local circuit, substantially as described. 2nd. A telegraph receiving instrument, consisting of two insulated arms carrying magnets at their extremities, and adapted to be vibrated to control a local circuit, substantially as described. 3rd. A telegraph receiving instrument, consisting of two arms having magnets at their extremities, the cores of the magnets forming contact pieces for controlling a local circuit, substantially as described. 4th. A telegraph instrument consisting of two spring arms carrying magnets at their extremities, said arms forming part of a local circuit containing a son ider, substantially as described. 5th. A telegraph instrument consisting of two spring arms carrying magnets, the cores of which form contact pieces, combined with a local circuit containing a differentially wound sounder, substantially as described. 6th. A telegraph instrument, consisting of two arms carrying magnets and contact pieces at their ends, the said arms forming part of a local circuit, and springs for controlling the pressure of said contact pieces, substantially as described. 7th. A telegraph instrument, consisting of two spring arms connected to an insulating support, and forming part of a local circuit, magnets upon the extremities of said arms, cores of the magnets provided with platinum contact pieces, and means for adjusting said arms, substantially as described. 8th. A telegraph instrument consisting of two insulated arms carrying magnets at their extremities, in combination with the line circuit passing through one or both of the magnets, and adapted to control a local circuit, substantially as described. 9th. The combination, with a telegraph line circuit, of two receivers, each consisting of two arms carrying magnets controlled by said line circuit, and arranged and adjusted to be operated by varying currents, substantially as described. 10th. The combina-