tube C open at both ends, whereby heat from the burner is cut off from the oil in the fount by a space through which air may ascend, for the purpose described. 2nd. The combination of the fount B, jacket D and double walled wick-tube C, open at both ends, and elosed at the bottom by an annular ring D, and provided with a tubular feed E opening through the jacket, whereby oil will be taken solely from near the bottom of the fount, for the purpose set forth. 3rd. In combination with the double-walled wick-tube C, open at both ends, having ratchet wheel G, of the surface perforated tubular wick-holder K, as set forth. 4th. The combination, with the double-walled wick-tube C, open at both ends, of the perforated tubular wick-holder K, and ring I for holding the wick, as set forth. 5th. The combination, with the jacket D, and wick-tube C, of the wire M, spring P and spreader O, for extinguishing the flame as set forth. 6th. The basket R, in combination with a tubular wick-tube C, and tubular lamp stand A for estching cinders from the burner, as set orth. 7th. The combination of the hollow stand A, fount B, jacket D, tubular double-walled wick-tube C, centrally open at both ends and extending through the jacket ratchet wheel G, perforated tubular wick-holder K, and depressable extinguisher, consisting of the wire M, spring P and spreaded O, as set forth.

No. 21,590. Autographic Telegraph Instru-(Instrument et ment and Circuit. Circuit de Télégraphe Autographique.)

Sylvester P. Dennison and Robert D. Radcliffe, New York, N. Y., U.S., 4th May, 1885; 5 years.

Then the and Circuit. (Instrument et Circuit de Télégraphe Autographique.) Sylvester P. Demison and Robert D. Radcliffe, New York. N.Y., U.S. 4th May, 1885; 6 years. To the operating stylus or electrode vibrating over the surface of the substance on which the message is written or to be recorded, attached of an electro-magnet is placed in a line and actuated by certain danges of polarity introduced into the current on such the the message is written. Or is to be recorded, attached to or connected with an armature polarized by a helix and approximate the said electro-magnet is placed in a line and actuated by certain danges of polarity introduced into the current on such the message is written, or is to be recorded, attached to or connected with an armature polarized by a helix and op ivoted or arranged in the field of a permanent magnet, or magnet, is the such as a construction of the subtance on which the message is written, or is to be recorded, attached to or connected with the armature of a hollow electro-magnet is a such an armature polarized by a helix and op ivoted or arranged in the field of a permanent magnet, or magnet, is the such as a construction of a source of the said changes of polarity introduced into the current on such the anges of polarity introduced into the current on such the anges of polarity introduced into the current is a such as a strate of a hollow electro-magnet is a strate of the said electro-magnet is a line and scinated by certain changes of polarity introduced into the current on the such anges of a negating stylus or electrode are previous in the said electro-magnet is in the field of a permanent magnet, or magnet, swith a means for reversing the polarity of the current of a hollow electro-magnet is provided and arranged to scillate in the field of a permanent magnet, or magnet, with a means for reversing the polarity of the current is not believed and arranged to scillate in the field of a permanent magnet or an armature of a hollow electro-magnet is polarized by a helix a

and the same machine be thus used for transmitting and receiving, substantially as herein set forth and described.

No. 21,591. Wire Strainer for Wire Fences. (Machine à Tendre le Fil de Fer à Clôtures.)

Joseph E. Pounds, Kew. (Assignee of Charles O. R. Walker, Coolart.) Victoria, 4th May, 1835 ; 5 years.

Viotoria, 4th May, 1835; 5 years. Claim.—1st. A wire strainer, consisting of a matallic roller having a central portion upon which the wire is wound of less diamater than its ends, which latter are provided with openings at and recesses a², extending from said openings, substantially as and for the purpose specified. 2nd. A wire strainer, consisting of a metallic roller, having a central portion upon which the wire is wound of less diameter than its ends, in which latter are formed openings at a rocess a² cottend-ing from said openings, and a slot a3 registering with said recess, substantially as and for the purpose specified. 3rd. A wire strainer, consisting of a hollow metallic roller, having a central portion upon which the wire is wound of less diameter than its ends, in combina-tion with a fence post and wire, substantially as and for the purpose specified. 4th. A wire strainer, consisting of a hollow metallic roller, having a central portion upon which the wire is wound of less diameter than its ends, and its hollow axis formod a hollow metallic roller, a consisting of a noller having a central portion, sub-stantially as and for the purpose specified. 5th. A wire strainer, consisting of a noller having a central portion, sub-stantially as and for the purpose specified. 5th. A wire strainer, consisting of a noller having a central portion of less diameter than its ends, and its hollow axis formod a near lar in section, sub-stantially as and for the purpose specified. 5th. A wire strainer, consisting of a roller having a central portion of less diameter than its ends, and provided in said ends with radial openings, in combina-tion with a retaining device constructed to bite into or embrace the fence post to which it is applied, substantially as and for the purpose specified. specified.

No. 21,592. Manufacture of Shoes. (Fabrication des Souliers.)

William A. Reed, Westborough, Mass., U.S., 4th May, 1885; 5 years. William A. Reed, Westborougn, Mass., U.S., 4th May, 1883; 5 years. Claim.—lst. The described method of forming the upper of a shoe, consisting in first cutting a blank in the form shown, then splitting the blank from the heel by an inclined cut to the proper point, and then forming the sides and counter out of the upper and lower sec-tions with the thicker edges at the bottom, all substantially as de-scribed. 2nd. A shoe upper, formed of one piece, split in the rear portions, and having the edges of unequal thickness, said split por-tions constituting the sides and counters with the thicker edges at the bottom, all substantially as described.

No. 21,593. Automatic Shunt for Telephone Lines. (Commutateur Automatique pour Téléphones)

George F. Lutringer, (Assignee of Charles D. Wright and Charles A. Fisher,) Petersburg, Ill., U.S., 5th May, 1885; 5 years.

George F. Lutringer, (Assignee of Charles D. Wright and Charles A. Fisher.) Petersburg, Ill., U.S., 5th May, 1885; 5 years.
Claim.-lst. In a telephone line, an automatic resistance and retardation reducer, consisting of an electro-magnet placed in the line, and connected with the large signalling magnet of a spring, placed opposite the ends of the cores of the electro-magnet, and carrying the armature of signalling magnet, substantially as herein shown and described. 3nd. The combination, with a telephone line, of the spring magnets, substantially as herein shown and described. 3nd. The combination, with a telephone line, of the spring magnet, the spring D and armature of the spring magnet, the spring D and armature attached thereto, connected by a wire with the line leading from the corresponding magnet A to the lectorsponding magnet, substantially as herein shown and described. 3nd the size and of the screw G against which the end of the spring D rests, which screw is connected with the signalling magnet A, of the magnet B, the spring D, the armature F on the same, the blocks H, the screw G hedi in the same the wire K connecting the formed connecting the spring D, the armature F on the same, the blocks H, the screw G hedi in the same the wire k connecting the spring the toock H with a wire leading to one end of the same the signalling magnet, which magnet A, substantially as herein shown and an electro-magnet and a spring for each signalling magnet, when the reverse current does not pass through the said electro-magnet when the reverse current does not pass through the signalling magnet, substantially as herein shown and an electro-magnet and a spring for each signalling magnet, when the reverse current does not pass through the said electro-magnet by reason of the retraction of its armature against a black stop to close a short circuit around the signalling magnet, and automatically bring the said signalling magnet, substantially as herein shown and described.

No. 21,594. Fire-Escape. (Sauveteur d'Incendie.)

George H. Downie, (Assignee of Robort E. Downie,) Whitewater, Wis., U.S., 4th May, 1885; 5 years.

Wis., U.S., with May, 1855; 5 years. Claim.-Ist. In a fire-escape, a slide composed of the independent parts arranged side by side with their inner faces flat and in contact, in combination with a suspended rope passing in and out through both parts of the slide, a carrier attached to one member of the slide, and a lever pivoted at one end to one member of the slide, and having its fulorum on the other member, substantially as and for the pur-posss set forth. 2nd. In a fire-escape, the rope A, in combination with a slide member D, provided with apertures C and bosse dI, and the bail E attached to one member of the slide, substantially as and for the purpose set forth. 3rd. In a fire-escape, suspended rope A, in combination with the slide B, composed of two members C and D, constructed substantially as specified, the bail E attached to one of the members of the slide and the lever C, substantially as and for the purposes set forth.

No. 21,595. Shutter Bolt and Fastening. (Goupille et Loquet de Contrevent.) John Von Hollen, Charleston, S.C., U.S., 6th May, 1885; 5 years.

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