photographic sensitive paper, constructed with the body of the paper A inclosed between the sensitive films B of gelatine silver emulsion, substantially as described. 4th. In a photographic paper, two separate sensitive films of gelatine silver emulsion supported and carried upon a single sheet of paper, as herein shown and described.

No. 22,281. Metallic Last for Boots and Shoes. (Forme Métallique pour Chaus-

Edward S. Kingston, Little Falls, and George A. Reynolds, Utica, N.Y., U.S., 22nd August, 1885; 5 years.

Edward S. Kingston, Little Falls, and George A. Reynolds, Utica, N.Y., U.S., 22nd August, 1885; 5 years.

Claim.—1st. A last formed of two sections, hinged together just behind the toe, substantially as shown and described. 2nd. A last consisting of a bottom section, formed with a toe, and an upper section beto bottom section just behind the toe, substantially as shown and described. 3rd. A hollow last formed of a bottom and an upper section connected at or near the toe and having open sides, substantially as shown and described. 4th. A hollow last formed of a bottom and an upper section hinged at or near the toe, and having open sides with suitable devices for holding the upper section in its raised position, substantially as shown and described. 5th. A last for boots and shoes, consisting of a bottom shell or section, a top or "fore-part" section hinged to said bottom section, a top or of "fore-part" section hinged to said bottom section in rear of the toe thereof, and terminating at a point in advance of the heel part of said bottom section, and suitable means for holding the top section in a raised position, so as to form an open space between the two sections, said fastening device when released allowing the last to collapse for permitting its removal from the boot or shoe, substantially as herein set forth. 6th. A boot or shoe last consisting of a bottom section having a toe and heel portion, and a top or "forepart" section extending from the toe portion of said bottom section to section, so as to leave an open space between the two sections, substantially as herein set forth. 7th. A hollow last formed of a bottom section A, having heel a, toe b, and side rims c, c, and an upper section B, hinged to the bottom at the toe, with suitable devices for holding the upper section in a raised position, substantially as described. 8th. In a hollow last, the combination of the bottom section A, with the spring b, substantially as and for the purpose set forth. 9th. A hollow last formed of the section B, in combinat

No. 22,282. Chemical Fire Extinguisher.

(Extincteur d'Incendie Chimique)

George A. Lindgren, Morgan H. Weir, Franklin R. Carson, Charles S. McClung and Ellsworth E. Weir, Laporte, Ind., U.S., 22nd August, 1885: 5 years.

Claim.—Ist. A fre extinguisher, consisting of the usual strong vessel or receiver, having controllable outlet and containing a charge of ammonium gas therein under pressure, substantially as described. 2nd. A fire extinguisher, consisting of the usual strong vessel or receiver, having controllable outlet and containing a charge of ammonium gas in liquified or anti-freezing solution therein, said gas serv-ing as the impelling motor to deliver the charge on to the fire, sub-stantially as described.

No. 22,283, Sad Iron. (Fer à Repaseer.)

James R. Berney, Sharbot Lake, and Daniel E. Rose, Tamworth, Ont., 22nd August, 1885; 5 years.

Ont., 22nd August, 1885; 5 years.

Claim.—1st. The shell A, having longitudinal slots E, F, in the sides, as set forth. 2nd. The shell A, provided with a door D at one sides and having a lamp within, hung by its ends to gravitate, as set forth. 3rd. In combination with the shell A, a hamp hung pivotally therein and packed with an absorbent material. 4th. In combination with the shell A, the drop handle C, having guides L at the terminations to precede the point of the iron, for following creases, etc.

No. 22,284. Sulky Plough. (Charrue à Siège.)

Isaac B. McLean, Lucan, Ont., 24th August, 1885; 5 years.

Claim.—1st. In a sulky plough the attachment for raising and lowering consisting of ratchet A. bar C, lever F, G, chain or rod I, arm K, short bar L, dog M. rod N and spring R, combined and operating substantially as shewn and specified. 2nd. A saiky plough having the mould-board and land-side placed in front of the wheels, to insure the furrow-wheel following accurately in the furrow, substantially as specified.

No. 22,285. Screw Cutting Tool-Holder.

(Porte Outil à Fileter les Vis.)

Edward F. Noyes, Hamilton, Ont., 24th August, 1885; 5 years.

Edward F. Noyes, Hamilton, Ont., 24th August, 1885; 5 years.

Claim.—1st. In a tool-holder for cutting outside screw-threads secured to the tool-post of a lathe, the combination of the shanks or bar A, with the movable tool-box C, pivoted to said shank or bar, and holding the tool D, for cutting outside screw-threads, substantially as described. 2nd. In a tool-holder for cutting inside screw-threads secured to the tool-post of a lathe, the combination of the shank or bar A, with the movable tool-box J, pivoted to said shank or bar, and holding tool e, for cutting in side screw-threads substantially as described. 3rd. In a tool-holder for cutting screw-threads, the combination of the movable tool-box J, shank A, bushing d, screw N and tool e, substantially as and for the purposes specified. 4th. In a tool-holder for cutting screw-threads, the combina-

tion of the collar O, set sorew P, tool-box J, shank A and tool e, substantially as specified. 5th. In a tool-holder, for cutting inside and outside screw-threads, the combination of the movable tool-boxes J, C, pivoted at each end of the bar A respectively, and the cutting tools D, e, an arranged and constructed substantially as and for the purposes specified. 6th. In a tool-holder, the set screw R, in combination with the tool-box J, and shank or bar A, to alter the toolholder to all ordinary lathe tool-holder, as specified. 7th. In a toolholder, the pin Q, in combination with the tool-box C, and shank or bar A, to render it a fixed tool-holder, substantially as specified.

No. 22,286. Apparatus for Generating Electricity, in part Applicable to other purposes. (Appareil pour Produire l'Electricité, et partie applicable à d'autres fins.)

The Honorable Charles A. Parson, Gateshead-on-Tyne, Eng., 24th August, 1885; 5 years.

durre Thiericite, et partie applicable à d'autres fins.)

The Honorable Charles A. Parson, Gateshead-on-Tyne, Eng., 24th August, 1885; 5 years.

Claim.—1st. An electric generator having its shaft or axis supported in bearings constructed to allow of slight lateral play resisted by a provided and elastic pressure, substantially in the manner hereinforced and elastic pressure, autotatically in the manner hereinforced and elastic pressure, autotatically in the manner hereinforced and elastic pressure, autotatically nump mounted on the saxis of the generator, and acting in construction and arrangement, for carrying away heat generated in the armature of the electric other liquid as described. 3rd. The construction and arrangement, for carrying away heat generated in the armature of the electric generator, and the fan which raises the liquid to the pump, substantially as described. 4th. A combined machine comprising an electric generator, a rotary motor on same axis with blades that rotate in a cylinder or case also furnished with blades, and means for lubricating and cooling the bearings, so that the machines is able to be run expined to the pump of the same and cooling the bearings, so that the machines is able to be run expined to the pump of the same and cooling the bearings, so that the machines is able to be run expined or hollow cylinders furnished with projecting rings of blades and within it or them a rotary cylinder or rotary cylinders or holing comprising an electric generator, and a motor having a hollow cylinder or hollow cylinders furnished with projecting rings of blades, and within it, or them, a rotary cylinder or rotary cylinders or parts, substantially as described. 6th. A combined machine comprising an electric generator, a motor having a hollow cylinders, furnished with projecting rings of blades, and within it, or them, a rotary cylinder or rotary cylinders are mounted, and bearing having a slight in such a manner as to enable the corary portion are situation of the parts of the motor and the g