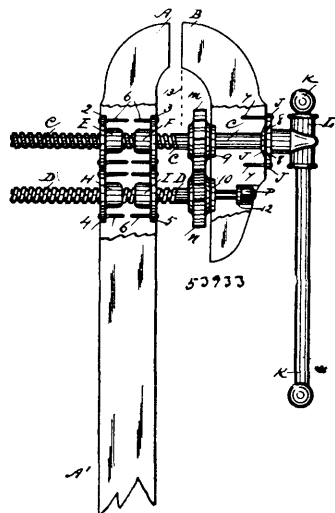
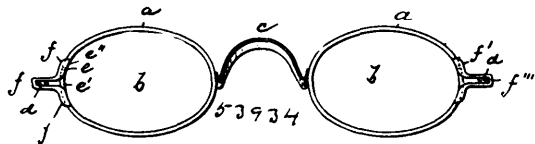


jaw both in vertical line, provided with an upper right hand threaded spindle which passes through said jaws and engages with



said nuts, said spindle provided with a spur wheel located adjacent to the inner curved line of moveable jaw in combination with the lower and parallel left hand threaded spindle engaging with inserted nuts in rigid jaw and provided with spur wheel to engage with said upper wheel the washers 9 and 10, the rigid flange J, and inserted nut P, with washers 12, at outer end of lower spindle and the handle of the front end of upper spindles substantially as described and set forth. 2nd. The combination in a vice of the upper and lower parallel spindles threaded and capable of exerting force on the moveable vice jaw, by means of an applied spur gear wheel on each said spindle, said wheels located in close proximity to the inner part of said jaw and the handle H, in sockets I₄, of the front end of upper spindle, substantially as described and set forth.

No. 53,934. Eye-glass, etc. (Pince-nez, etc.)



George Whitfield Meigs, Newark, New Jersey, U.S.A., 3rd November, 1896; 6 years. (Filed 2nd September, 1896.)

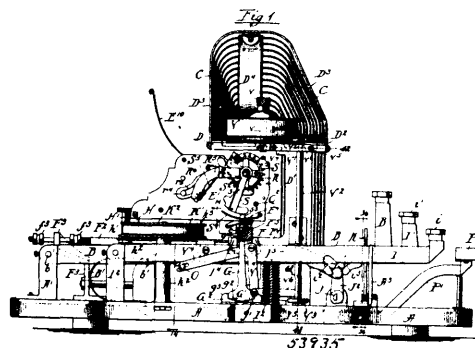
Claim.—1st. The combination with the cut or opening wire of an eye-glass or spectacles, of a bow, the feet of which are fastened on opposite sides of the cut or opening, one of said feet being concave and being fixed to one of the ends of the wire and loosely covering and concealing the end to which the other foot is fixed, substantially as set forth. 2nd. In spectacles or eye-glasses, the combination with the cut or open eye wire and the nose piece, of connected limbs one of which has a foot fastened upon said eye wire and covering the cut or opening therein, and the limb connection serving as a seat for the nose piece c, and said nose piece seated on said connection, substantially as set forth. 3rd. In spectacles or eye-glasses, the combination with the open eye wire, of connected limbs having concave or grooved feet, one of which covers the opening in the eye wire and is attached to the eye wire end opposite that to which the other foot is attached, the connection of said limbs providing bearings for attachments of said eye wire such as the nose pieces or temples, substantially as set forth. 4th. The combination with the open eye wire, of integrally connected limbs having longitudinally concave or grooved oppositely extending feet fastened on opposite sides of the opening, one of which feet covers the opening and prevents lateral movements of the eye wire and lying loose therein, said limbs being perforated at their outer extensions and temples hinged in said perforations, substantially as set forth.

No. 53,935. Typewriting Machine. (Clavigraphie.)

Thomas Oliver, Woodstock, Illinois, U.S.A., 3rd November, 1896; 6 years. (Filed 11th September, 1896.)

Claim.—1st. In a typewriter, looped or U-shaped type bars of varying lengths, carrying type heads on their closed or looped ends, which type heads are heavier on the shorter than on the longer bars, and are graduated in weight according to the lengths of the type bars. 2nd. The combination with a carriage and a shifting frame for supporting the same, of rocking standards for supporting said frame, said standards having curved end bearing surfaces provided with longitudinal grooves and flat sheet metal shoes, the edges

of which engage said grooves, said shoes having at their ends projecting parts which engage the opposite ends of the bearing surfaces



to hold the standards from shifting on the shoes. 3rd. The combination with a paper carriage, of a spacing mechanism comprising a rack on the carriage, a revolving shaft carrying a pinion which engages the rack, and an escape mechanism embracing an escape wheel which is mounted on the shaft at a point remote from the pinion, the end of said shaft which carries the pinion being movable toward and from the rack about an axis of oscillation adjacent to the escape wheel, a spring acting on the shaft to throw the pinion toward the rack and a releasing bar arranged to act on the shaft to release the pinion from the rack. 4th. The combination with a paper carriage, of a spacing mechanism comprising a rack on the carriage, a revolving shaft carrying a pinion which engages said rack and an escape mechanism which embraces an escape wheel which is mounted on the shaft at a point remote from the pinion, the end of the shaft which carries said pinion being movable toward and from the rack about an axis of oscillation adjacent to the escape wheel, a releasing bar on the carriage arranged to act on the shaft to hold the pinion free from the rack and an actuating device for said releasing bar, comprising an endwise sliding trip rod mounted on the carriage, and a bell crank lever mounted on the carriage for transmitting motion from the trip rod to the releasing bar. 5th. The combination with a paper carriage, of a horizontally movable shifting frame for supporting said carriage, and a spacing mechanism comprising a rack on the carriage, an upright shaft on the shifting frame provided with a pinion at its upper end adapted to engage said rack, said upper end of the shaft being movable toward and from the rack, an escape wheel on the lower end of the shaft, an escapement lever mounted on the shifting frame so as to swing in a vertical plane and provided with stiff and limber pawls which engage the escape wheel, and a vertically-movable spacing bar having connection with the said escapement lever, permitting the escapement lever to retain its operative connection with the spacing bar when moved with the shifting frame. 6th. The combination with a platen, a ratchet wheel, and a holding pawl engaging the ratchet wheel, of a frictional connection between the ratchet wheel and platen and a locking detent adapted to engage said pawl for holding it positively in engagement with the ratchet wheel, whereby the latter is held from turning. 7th. The combination with an endwise-movable carriage and a revolving platen thereon, of automatic line-spacing mechanism, comprising a ratchet wheel on the platen shaft, a sliding cam on the carriage, an oscillating feeding arm mounted on the carriage, and a feed pawl pivoted to the arm and adapted to engage the ratchet wheel and also to engage the said sliding cam. 8th. The combination with an endwise-movable paper carriage and a revolving platen thereon, of automatic line-spacing mechanism, comprising a ratchet wheel on the platen shaft, a sliding cam on the carriage, an oscillating feeding arm which is actuated by the sliding cam and carries a pawl which engages the ratchet wheel, a stationary pawl stop on the carriage giving a maximum line space, and a pivoted gravity actuated stop for giving a less extent of line feed. 9th. The combination with an endwise-movable paper carriage and a guide bar for the same, of an automatic line-spacing device, a sliding rod on the carriage for actuating the same, and a stop for actuating said rod, comprising an adjustable slide on the guide bar, and a movable stop plate on said slide, adapted to actuate the sliding rod. 10th. The combination with a carriage guide bar, of a margin stop comprising a slide and a block pivoted to the slide and provided with a holding pin adapted to engage one of a series of holes in the guide bar, said pin being located in the block at a distance from the pivotal point of the same, so that it may be engaged with and disengaged from the said guide bar by the swing of said block on its pivot. 11th. The combination with an endwise-movable carriage and a revolving platen thereon, of automatic line-spacing mechanism comprising a ratchet wheel attached to the platen, a sliding cam on the carriage, an oscillating feeding arm which is actuated by the sliding cam, a spring actuating the cam, a stop on the carriage movable into and out of position for engagement with the said cam, and a cam plate on the carriage adapted to actuate said stop for releasing the cam plate after the same has been actuated to turn the platen. 12th. The combination with a paper carriage and a platen movable upon the carriage into and out of its