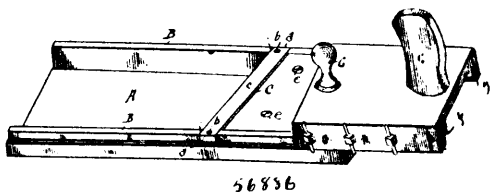


shown and described. 6th. In a tie boring machine, the combination with a vertically adjustable head or frame carrying boring spindles at the ends thereof, and vertical guides for said frame, of suspending cords or chains b^2 , b^2 , pulleys b^3 , b^3 , b^4 , b^4 , at the top of the frame-work supporting said cords or chains, the front pulleys b^3 , b^3 , being set near the ends of the frame, and the rear ones b^4 , b^4 , close together, a single balance weight B^9 connecting with cords b^2 , b^2 , below the pulleys b^4 , b^4 , and a hand lever B^7 to throw the boring frame out of balance and move it up or down, substantially as and for the purpose described. 7th. A wood working machine, having a reciprocating carriage with automatically operating and compensating stop devices for stopping the carriage at various points to bring the centre of the object acted upon directly beneath the centre of the cutting tool, said compensating stop devices comprising two sliding stop frames, one in the plane of the object being acted upon and the other for contact with the carriage, and both frames being connected for a reverse movement, substantially as herein shown and described. 8th. The combination with the tie carriage and the gears for reciprocating it, of the compensating stop frames connected for a reverse motion, a wheel h^1 having yielding journals, and a bracket for said journals with connecting mechanism extending to the feed gears of the carriage, whereby the yielding of the said wheel under the stop impact is made to stop the feed of the carriage, substantially as shown and described. 9th. The combination of the tie carriage, the cord r , pulleys r^1 , r^2 , shaft R with drum r^3 and gear wheel R^1 , and the stopping and reversing gear G , the compensating stop frames H , H^1 , H^2 , H^3 , flexible connection h and pulley h^1 for a reversed action, the journal of said pulley being carried in bracket G^6 , and lever G^5 , rod G^4 , rock shaft G^3 , and tappet arm G^2 , connecting the said bracket with the stop devices of the carriage feed, substantially as shown and described. 10th. In a tie planing and boring machine, the combination of the horizontally reciprocating tie carriage, the scoring saws and cutter heads arranged above the carriage upon horizontal axes, and an adjustable lifting device on the carriage for raising the level of these ties to proper contact with the saws and cutter heads, substantially as and for the purpose described. 11th. In a tie planing and boring machine, the combination with the horizontally reciprocating carriage, of a series of pivoted and horizontally adjustable spacing arms D^2 arranged on each side of the carriage to raise the level of the tie, substantially as and for the purpose described. 12th. In a tie planing and boring machine, the combination with the horizontally reciprocating carriage, of a pendent superposed and flexible stop gauge arranged in a vertical position above the point where the carriage receives the tie to stop the tie when the latter is raised and to yield with the tie and carriage when the latter are moved horizontally, substantially as shown and described. 13th. In a tie planing and boring machine, the combination with the carriage, of a pair of back stop pins D^5 , keepers and wedges D^4 , and pivoted levelling arms D^2 , substantially as and for the purpose described. 14th. In a tie planing and boring machine, the combination with the reciprocating carriage, of a series of gravity pawls or detents fulcrumed on the stationary frame and made of different lengths and placed a little behind the position of extreme advance of the carriage to engage the tie on the retreat of the carriage and shove it off the carriage, substantially as and for the purpose described. 15th. In a tie boring and planing machine, the combination of the reciprocating carriage, the discharging pawls or detents fulcrumed on the stationary frame, and subadjacent receiving rollers and mechanism for positively actuating one or more of them to discharge the tie from the machine, substantially as shown and described.

No. 56,886. Planer for Wood Cuts and Electroplates.

(*Spatule pour gravures sur bois et plaque electrode.*)



56886

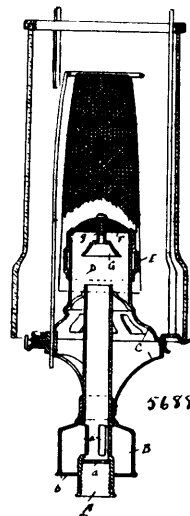
Michael P. Kenna, Dubuque, Iowa, U.S.A., 4th August, 1897; 6 years. (Filed 25th May, 1897.)

Claim.—1st. In a machine of the character described, a gauge for holding electroplates to be planed or shaved, having a plate E , one or more type-high gauges secured to said plate, means for rigidly securing an electroplate on said plate and a cutter for shaving said electroplate, for the purposes shown. 2nd. A machine of the character described, consisting of a bed A , having sides B , cutter C , gauge D , and a holder with a handle for operating the same and having one or more type-high gauges f , projection g , and set-screw H , all combined to operate, as and for the purposes shown. 3rd. A machine of the character described, consisting of a bed-plate with parallel sides, a cutter set in said sides flush with the same, a gauge for said cutter, a holder for the electroplate having one or more type-high gauges adapted to be moved along on the sides of the bed

and means for holding the electroplate in said holder, as and for the purposes shown. 4th. A machine of the character described, consisting of a bed with parallel sides, a cutter set with its upper edge flush with the top of said sides and at an angle to said sides, a gauge for said cutter, adjustably set in the bed, a holder provided with a type-high gauge having projections adapted to compass the sides pieces of the bed, means for adjustably holding the electroplate within the holder and handle for driving the holder with the electroplate secured therein over said cutter, whereby the cut is shaved or planed to the thickness of said gauge, for the purposes shown.

No. 56,887. Atmospheric Burner.

(*Bruleur atmosphérique.*)



56887

Philip Meyer, Alameda, California, U.S.A., 4th August, 1897; 6 years. (Filed 25th May, 1897.)

Claim.—1st. In an atmospheric or Bunsen burner, the combination with the gauze diaphragm at the ignition end of the burner, with an underlying solid deflector plate. 2nd. In an atmospheric or Bunsen burner, the combination with the gauze diaphragm at the ignition end of the burner with an underlying solid deflector plate having a bell-shape. 3rd. In an atmospheric or Bunsen burner, the combination with the gauze diaphragm at the ignition end of the burner with an underlying solid deflector plate suspended from said diaphragm. 4th. In an atmospheric or Bunsen burner, the combination of the gauze diaphragm at the ignition end of the burner with an underlying solid deflector-plate suspended from said diaphragm and having a bell-shape. 5th. In an atmospheric or Bunsen burner, the combination of the pipe or tube for conveying the inflammable mixture, the extension chamber into which said pipe or tube enters and to which it delivers the mixture prior to ignition, and a solid deflector plate suspended in said chamber below its top. 6th. In an atmospheric or Bunsen burner, the combination of the pipe or tube for conveying the inflammable mixture the extension chamber into which said pipe or tube enters and to which it delivers the mixture prior to ignition, the gauze diaphragm in the top of said chamber at the point of ignition and the solid deflector plate in the upper portion of the chamber below the diaphragm.

No. 56,888. Holder or Support for Flower Pots, &c.

(*Support pour pots de fleurs, etc.*)

James Francis Healy, New York, State of New York, U.S.A., 4th August, 1897; 6 years. (Filed 26th May, 1897.)

Claim.—1st. A holder for flower pots, and other vessels or receptacles, whereby said flower pot or other vessel or receptacle may be suspended from a wall or other support, said holder consisting of two parts, one of which is adapted to slide upon the other, one of said parts being provided with inwardly directed hooks or projections, and the other being mounted thereon above said hook or projections, and being adapted to slide thereon, and being also provided with a ring or loop, and with downwardly directed arms, substantially as shown and described. 2nd. In a holder for flower pots and other vessels or receptacles, consisting of two parts as D , and G , the part D , being adapted to be suspended from a pin or other support, and being provided at the lower end thereof with hooks or projections, and the part G , being mounted on the part D , and free to slide thereon, and being provided at one side of the part D , with downwardly directed arms, and at the opposite side thereof, with a downwardly directed extension, substantially as shown and described. 3rd. A holder for flower pots and other vessels or receptacles, composed of two parts as D , and G , each of which is formed