

### No. 15,145. Improvements on Boot and Shoe Burnishing machines. (*Perfectionnements aux machines à polir les chaussures.*)

Caleb J. Blakeley, Jamesville, Wis., U. S., 21st July, 1882; for 5 years.

*Claim.*—1st. In combination with the tool holder, a burnishing tool adapted to be secured therein in any desired inclination. 2nd. In combination with the tool holder, a burnisher provided with a shank by means of which it is secured in any desired inclination. 3rd. In combination with the tool holder provided with the arm J, a burnishing tool provided with a shank adapted to fit between the said arms and be secured therein by bolt or nut. 4th. In combination with the tool holder J and a slide, a pitman and cam shaft adapted to give a reciprocating motion to the slide. 5th. In combination with the tool holder J having the arms J between which the burnishing tool is clamped at any suitable inclination by suitable bolt and nut and a reciprocating slide to which the said tool holder is secured, a pitman connecting said slide with a suitable cam or crank to give the desired motion to the slide, the driving shaft and a brush secured on the said driving shaft. 6th. The combination, with the slide having suitable grooves and tenons for holding the same in position therein, of the slide bearing having the adjustable bearing piece Q, the pitman I, and means for imparting a reciprocating motion to the tool holder. 7th. The combination, with the base A, standard O and slide bearing N, of the slide M, tool holder pitman I and means for imparting a reciprocating motion to the said tool holder. 8th. The combination, with the shaft D, wheel G having a T-shaped groove therein, the pin H and the sleeve L having the collar O therein, of the pitman I slide M and tool holder J. 9th. The combination, with the base A, standards B, two-part bearings C and caps a, of the shaft D, brush F, wheel G, pin H, pitman I, slide M and tool holder J. 10th. The combination, with the base A, standards B, two-part bearings C and a, of the shaft D adapted to be revolved in the said two-part bearings. 11th. The combination, with the wheel G and crank pin H, of the pitman I, the split collar or ring f and the screw g. 12th. The combination, with the burnisher attachment U adapted to be screwed at any desired inclination in the tool holder J, of the burnisher so secured in the said attachment as to have a partial rotary movement therein. 13th. The combination with the shank burnisher attachment U and the screw p, of the shank burnisher having the out away portion r and the spring W. 14th. The combination with the opening tapering base having a driving shaft suitably journaled therein, the latter being provided with a belt wheel and a drive pulley, of a second shaft suitably journaled on the top of the said base and provided with a drive pulley and a brush, and at its opposite ends with disks having removable crank pins by means of which the length of the stroke of the burnishing tools is increased or diminished. 15th. The combination, with the tool holder provided with arms J, one of the said arms being provided with a spring clamp of a gas or other heating pipe removably held in the said spring clamp and adapted to convey the gas or other heating agent into close contact with the burnishing tools. 16th. The combination with the frame or base of the machine and reciprocating slide or tool-holder, of a pivoted rest provided with a loop in which the operator's hand rests while holding the shoe. 17th. The combination, with the reciprocating tool holder of a double reversible edge setter and means for heating the said setter. 18th. The combination, with the reciprocating tool holder, of a double reversible tool holder, the working ends of which are adapted to partly revolve on the shank so as to enable the said working ends to follow the curves of the boot or shoe. 19th. In an edge setting attachment, the combination with the socketed holder provided on its outer edge within a groove of the headed shank provided with lugs, a spring for holding the lugs in the grooves and a double ended setting tool, the shank of which passes transversely through the headed shank. 20th. The combination, with socketed holder provided on its outer edge with a groove or grooves, headed shank portion of which passes through the socket in the holder, a spring encircling the said shank, a nut for securing the parts in position and affording a bearing for one end of the spring and a lug or lugs adapted to fit in the groove or grooves before mentioned and hold the edge setting tool firmly in position, of a double reversible edge setting tool, the working ends of which are adapted to partly rotate so as to enable it to accommodate itself to the curves of the shoe. 21st. In combination with a headed shank adapted to be rotated and means for holding the same in locked adjustment, of a double edge setter the body portion of which is rigidly secured in the head portion of the above mentioned shank while the operative or working ends thereof are adapted to partly rotate so as to accommodate themselves to the curvature of the shoe. 22nd. In a double edge setter, the combination, with the shank thereof rigidly secured in a pivoted holder and provided with flexible arms each having a curved outer end, or fingers, and a transverse oblong slot, of the working or operative ends thereof, pivotally secured on the said shank and provided with outwardly extending lugs and adapted to rest in the said oblong slots and hold the same in position and limit the extent of movement of the said working ends, and rings adapted to be moved on said flexible arm and lock them down in position. 23rd. The combination with the flexible gas pipes T and the main or supply pipe T<sub>2</sub>, of the reciprocating tool holders and movable spring clamps for holding the free ends of the pipes T. 24th. The combination, with a suitable base having a hand rest pivotally secured thereto in any desired manner, of a slide bearing and a reciprocating slide provided with tool holding arms between which the tools are adjustably secured. 25th. The combination with the stand ends B, having a slide bearing secured thereon, the said latter being provided with the adjustable piece Q for taking up the wear of the reciprocating slide secured in the said bearing and provided with tool holding arms and a hand rest. 26th. The combination, with the slide bearing, of the reciprocating slide provided with tool-holding arms, the spring clamp for holding the gas pipe and the hand rest. 27th. The combination, with the base or support A, and the reciprocating slides, the latter being provided with tool-holding arms having spring clamps adjustably secured thereon, of a T-shaped pipe secured to the said base, and a flexible pipe connected therewith and adapted to convey the gas to the tools secured to the said slides.

### No. 15,146. Improvements in Electric Gas Lighters. (*Perfectionnements aux allumeurs électriques à gaz.*)

Wilson D. Schooley, Richmond, Ind., U. S., 21st July, 1882; for 5 years.

*Claim.*—1st. The combination, with the gas tube M of the valve F carried by the arm f, having cam f, the lever G arranged to act upon the cam of said arm, the armature arranged to actuate said levers, and the magnets arranged to control said armature. 2nd. An apparatus for turning on and off the supply of gas to a burner, the casing having two or more compartments one of which is a gas chamber connected with a burner and divided from the other chamber by a gas tight partition or division, in combination with a gas supply passage opening into said gas chamber or gas valve, located in said passage, an armature arranged also in said gas chamber to operate said valve, and an electro-magnet arranged in another chamber separated from the gas chamber, and having its poles or cores projecting into the gas chamber through the partition, for operating said armature. 3rd. The casing having two or more compartments, the upper of which is divided from the rest by a gas tight partition and the upper compartment containing the gas valve and the lower compartment containing an electro-magnet for operating said valve, the bottom plate of said lower compartment having the core or cores of the electro-magnet secured thereto. 4th. The casing having two or more chambers including the parts of the apparatus and composed of the separate sections combined with a gas-tight partition. 5th. The combination with the casing having the bottom B supporting the binding posts, of the cap plate R, having passages for said posts. 6th. The combination, with the gas tube M, of the valve F carried by arm f, the lever G arranged to act upon said arm the adjustable armature arranged to actuate said lever, and the magnets arranged to control said armature.

### No. 15,147. Improvements in Folding Beds.

(*Perfectionnements aux lits pliants.*)

Ethelbert S. Griffith, Toledo, Ohio, U. S., 21st July, 1882; for 5 years.

*Claim.*—1st. The side rails permanently pivoted to transverse jointed truss supports, whereby the said rails are adapted to be folded into contact or nearly so. 2nd. The supports arranged as a jointed truss and also the upper ends of said supports pivoted to the said rails, whereby they are adapted to fold into substantial parallelism with the said rails when the said rails are brought together, or nearly so. 3rd. The supports arranged as a jointed truss, said supports being pivoted to the side rails whereby the said supports are adapted to be folded into substantial parallelism with the side rails when said rails are in folded position. 4th. The combination of jointed stays pivoted to trussed supports. 5th. The combination of side rail cleats and a flexible covering, whereby the said covering is adapted to be fastened to the side rails throughout its entire length.

### No. 15,148. Improvement in Lamp Fillers.

(*Perfectionnement des alimentateurs des lampes*)

James W. Cutlibertson, Bothwell, Ont., 21st July, 1882; for 5 years.

*Claim.*—The combination of the can A, shoulder C, force pump B, shoulder D, brace E, extension tube J and stopper S.

### No. 15,149. Improvements on Machines for Paring and Coring Apples. (*Perfectionnements aux machines à peler etvider les pommes.*)

Albert J. Rice, Sodus, N. Y., U. S., 21st July, 1882; for 5 years.

*Claim.*—1st. The combination, with the fork D, of the reciprocating coring tool p and the doffer L. 2nd. The combination of the fork D, reciprocating corer p, doffer L, racks h and g, and pinion O. 3rd. In combination with the knife and knife head of an apple paring machine, the reversible guard i having wearing surfaces on opposite sides thereof. 4th. The combination, with the fork D and suitable paring mechanism, of the reciprocating corer p and doffer L and mechanism for operating the corer and doffer from the paring mechanism. 5th. The combination, in an apple paring mechanism, of the rotating turntable G provided with the rollers G<sub>1</sub> and h<sub>1</sub>, and the cam bar N adapted to receive a reciprocating motion from the roller, and suitable connecting mechanism for operating the corer and doffer from the turntable. 6th. The combination, with an apple paring mechanism, of the corer p, doffer L, link K, lever J, cam bar N and suitable mechanism for actuating the cam bar N from the paring mechanism. 7th. The combination of the turn table G provided with rollers g<sub>1</sub> and h<sub>1</sub>, and flange A, the cam bar N having arms W and T. 8th. The combination in the knife head of an apple paring mechanism, of the reversible guard i provided with grooves on two of its opposite sides and secured in place in the head by means of the rib W and screw or bolt K. 9th. The combination, in a power attachment for apple parers, of the main wheel C provided with the notch or depression b<sub>1</sub> in its outer edge, the friction disk W and lever S, roller a and suitable connecting mechanism between the disks and the lever.

### No. 15,150. Improvements on Churns.

(*Perfectionnements aux barattes.*)

Anthony W. Burke, Stayner, Ont., 21st July, 1882; for 5 years.

*Claim.*—In an upright square churn having a thermometer, the combination of the inner cover D, bottom a<sub>1</sub> and the dash B provided with valvular dash plates having knobs b<sub>1</sub>, side bar b<sub>2</sub>, and chute bars b<sub>3</sub>.