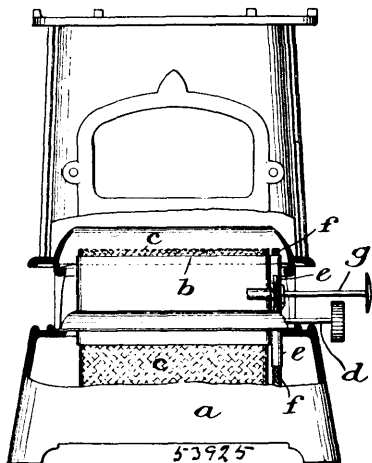
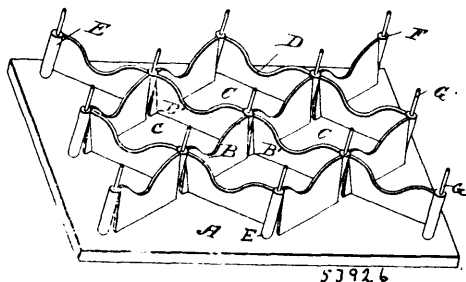


for the purpose of re-kindling the main wick or wicks when required substantially as herein set forth. 2nd. The several com-



bination with the main burners *b*, of the auxiliary burners *e*, substantially as and for the purposes herein described with reference to the accompanying drawings.

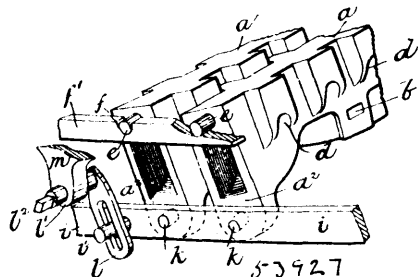
No. 53,926. Tufting Machine. (*Machine à garnir.*)



Edward Albert Potter, Toronto, Ont., Ontario, Canada, 2nd November, 1896; 6 years. (Filed 16th October, 1896.)

Claim.—1st. A tufting machine, consisting of a series of successive dies, each comprised of a series of pleat formers arranged to form the pleats, and a series of tuft formers to form the indentations for the buttons, substantially as specified. 2nd. A tufting machine, consisting of a base, a series of successive dies mounted on the base, each die comprised of a series of pleat formers arranged to form the requisite shape and set at an inclination to the base, a tuft former set at each corner of each die to form an indentation for the button, and a series of pins adapted to be inserted into the tops of the tuft formers, substantially as specified. 3rd. A tufting machine, consisting of a base, a series of successive dies mounted on the base, each die comprised of a series of pleat formers arranged to form the requisite shape and set at an inclination to the base, a tuft former set at each corner of each die to form an indentation for the button, a series of pins adapted to be inserted into the tops of the tuft formers, and a presser plate adapted to be supported by the tuft former, substantially as specified.

No. 53,927. Rocking Fire Bar for Furnaces. (*Grille à bascule pour fournaies.*)

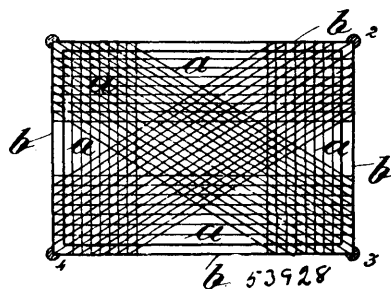


Andrew Pillatt, Nottingham, England, 2nd November, 1896; 6 years. (Filed 16th October, 1896.)

Claim.—1st. A rocking furnace grate, having hollow bars formed with lateral air inlets in their web or rib and with hollow teeth or projections also serving as air inlets, these bars having depending mouths and serving to discharge heated air through and behind the

fire bridge, where it meets and mingles with the products of combustion from the fuel, substantially as described. 2nd. In a rocking furnace grate of the kind specified, the arrangement for supporting and rocking the bars, comprising the solid or tubular pivot pins on the said bars resting upon transverse bearer bars, the pins on the downwardly depending mouths, the connecting rod engaging these latter pins, and the slotted lever adapted to receive a removable handle for operating the connecting rod and so rocking the bars, substantially as described. 3rd. In a rocking furnace grate, the combination with the hollow fire bars having lateral air inlets and hollow teeth, of a fire bridge having an opening through which the hot air from said bars can pass, a dust guard arranged at the rear of such bridge above the opening, and a damper also at the rear of the bridge, substantially as described. 4th. The improved construction of hollow rocking fire bars, substantially as described. 5th. My improvements in furnaces and in rocking fire bars therefor, substantially as hereinbefore described with reference to the accompanying drawings.

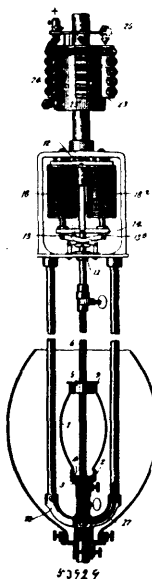
No. 53,928. Method of Constructing Walls, etc. (*Méthode de construire des murs, etc.*)



Alexander Matrai, Budapest, Hungary, 2nd November, 1896; 6 years. (Filed 19th October, 1896.)

Claim.—In walls, floors, roofs, or other surfaces, flat, concave or convex, having great bearing strength, the combination of a frame, supported at suitable points, and having one or more series of wires attached at their ends to points on said frame in proximity to the points of support, said wires conforming to the shape of the bearing surface to be attained, and a plastic mass to inclose the said wires and attach to the bearing frames, substantially as described.

No. 53,929. Electric Arc Lamp. (*Lampe électrique à arc.*)



Louis B. Marks, New York, State of New York, U.S.A., 2nd November, 1896; 6 years. (Filed 17th April, 1896.)

Claim.—1st. An arc lamp having a transparent or translucent envelope around the arc provided with a contracted opening through which the positive electrode may feed, and a small auxiliary resistance in series with the arc, the arc and idle resistance respectively, bearing such a relation that the ratio of their voltage drops will exceed unity. 2nd. An arc lamp having a transparent or translucent envelope around the arc provided with a contracted opening through which the positive electrode may feed, a gas-check to obstruct