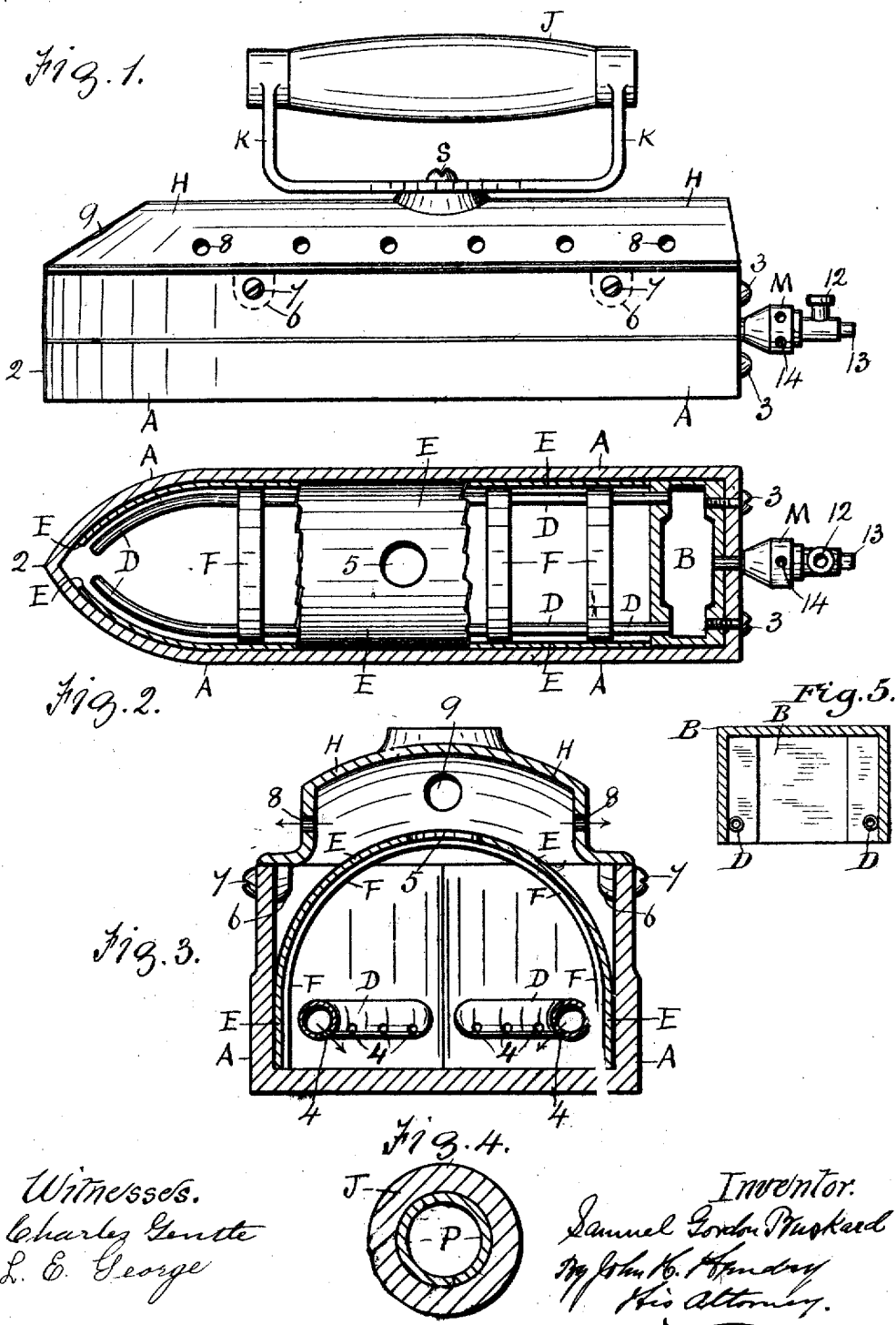


S. G. BUSKARD.
SMOOTHING IRON.
APPLICATION FILED APR. 18, 1908.

931,381.

Patented Aug. 17, 1909.



UNITED STATES PATENT OFFICE.

SAMUEL G. BUSKARD, OF HAMILTON, ONTARIO, CANADA.

SMOOTHING-IRON.

No. 931,381.

Specification of Letters Patent.

Patented Aug. 17, 1909

Application filed April 16, 1908. Serial No. 427,316.

To all whom it may concern:

Be it known that I, SAMUEL GORDON BUSKARD, subject of the King of Great Britain, and resident of Hamilton, in the county of Wentworth and Province of Ontario, Canada, have invented new and useful Improvements in Smoothing-Irons, of which the following is a specification.

My invention relates to improvements in smoothing-irons, in which a hollow smoothing iron, is provided with a gas combustion chamber, and a gas and air mixer at the rear end with flexible gas tube connected therewith, perforated gas pipes extending from said gas chamber and into the hollow smoothing iron, and a removable cover having a non-conductive handle connected thereto.

The objects of my invention are, first, to provide a smoothing-iron adapted for pressing material of a heavy cloth nature and to be used chiefly by tailors, second, to provide ample means for heating the bottom of the smoothing-iron in a perfect manner, while at the same time the upper part is comparatively cool, third, to provide means for retaining the heat in the lower part of the smoothing iron; thereby very materially economizing the heat, this being an important feature of my invention; fourth, to provide means for keeping the handle cool, and to afford facilities for ventilating the smoothing iron, and for easily removing the cover, for cleaning, and other purposes. I attain these objects by the mechanism illustrated in the accompanying drawing in which:—

Figure 1 is an elevation of the smoothing-iron in its completeness. Fig. 2 is a sectional plan of the iron, showing the gas chamber in the rear of the iron, the steel spring supporting arches and a part of the asbestos shield, broken, to show said arches. Fig. 3 is an enlarged, and full sized sectional end elevation of the iron, having its handle removed, and as viewed from the rear end thereof. Fig. 4 is an enlarged section of the handle. Fig. 5 is a sectional end elevation of the detached gas chamber, showing the covered top thereof.

Similar characters refer to similar parts throughout the several views.

In the drawing the hollow smoothing-iron is indicated by A, the forward end 2, of which is suitably pointed, or rounded, as is usual in smoothing irons, and of suitable

thickness of metal and depth. A gas chamber B, having closed top fits snugly into the rear end part of the iron and is secured firmly and rigidly to the end of the iron by means of screws 3.

D, are gas pipes secured to the gas chamber B and communicate therewith and the opposite ends of said pipes follow the shape of the side walls of the iron too near the forward end thereof and are closed. The pipes D are located a suitable distance from the base of the iron and have a number of oblique gas outlets 4, at about the angle of forty-five degrees, and pointing toward the base of the iron as indicated by arrows, in order that the gas shall strike said base, only, to heat the same. The openings or gas outlets 4 in the pipes D, are a suitable distance apart throughout the length of the pipes.

E, is an asbestos shield, or dome, and F, are spring steel arches, a distance apart, to support the asbestos, or other non-conductive material. The asbestos together with the steel arches, are between the walls of the smoothing iron, and the pipes D, and the arches F are adapted to retain the asbestos in close proximity with said walls, to keep the same from heating, and especially to retain the heat in the lower or base part of the iron. The asbestos extends to about the length of the pipes D, and the upper part of the asbestos has an opening or openings 5.

The removable cover H, of the smoothing-iron, has lugs 6, which fit close to the inner sides of the iron and are secured thereto by screws 7.

8, are a number of openings in the sides of the cover, and 9 is a similar opening in the forward end of the cover and which communicate with the opening 5, in the asbestos, for ventilating purposes.

M is a gas and air mixer attached to the rear end of the smoothing iron and communicates with the gas combustion chamber B. The mixer has an extension 12 for the attachment of a flexible gas tube to admit gas into the mixer and the valve pin 13 is adapted to regulate the air holes 14 in the mixer in order to have a sufficiency of more or less air to suit the requirements of natural or manufactured gas.

J is a non-conductive operating handle of the smoothing iron and is held in a frame K, which is secured to a central part of the cover H, by means of a screw S, and a hori-

zontal ventilating tube P, extends through the handle J, for the passage of air to keep the handle cool.

What I claim as my invention and desire to secure by Letters Patent, is:—

In a hollow smoothing iron, a divisional wall in the rear end thereof to form a gas chamber between said wall and rear end, an outer gas and air mixer on said rear end communicating with the chamber, gas pipes having oblique holes in the lower parts thereof, in the iron and extending from the

chamber and terminating at the forward end of the iron, asbestos extending between said gas pipes and the walls of the iron, and above and over said pipes and having an upper opening, steel arches between the asbestos and the walls of the iron to support the asbestos and retain the same in position. 15

SAMUEL G. BUSKARD.

Witnesses:

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