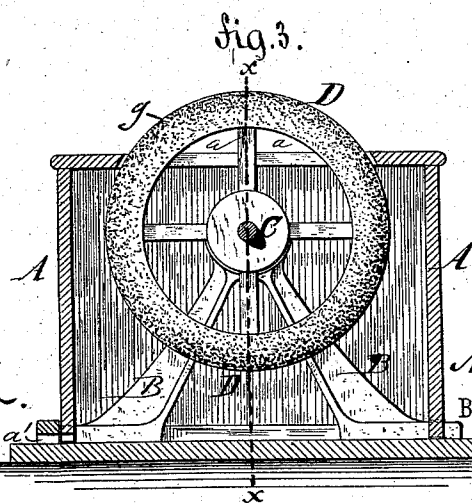
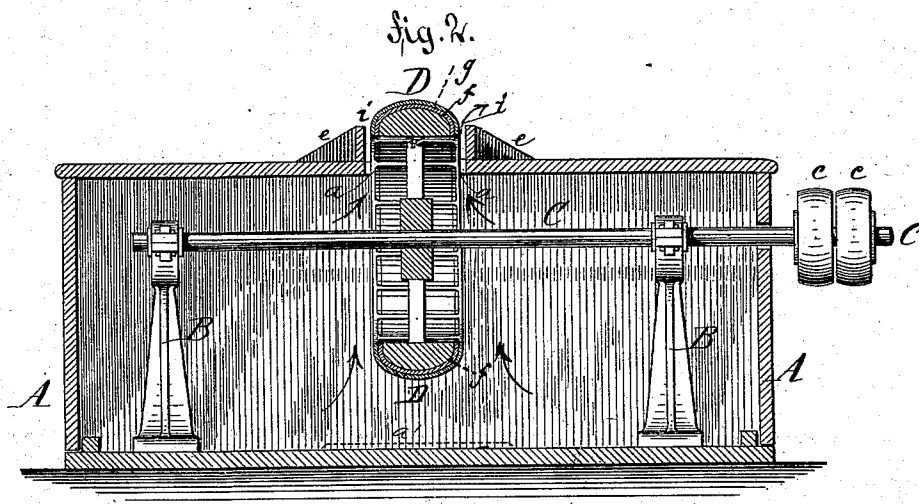
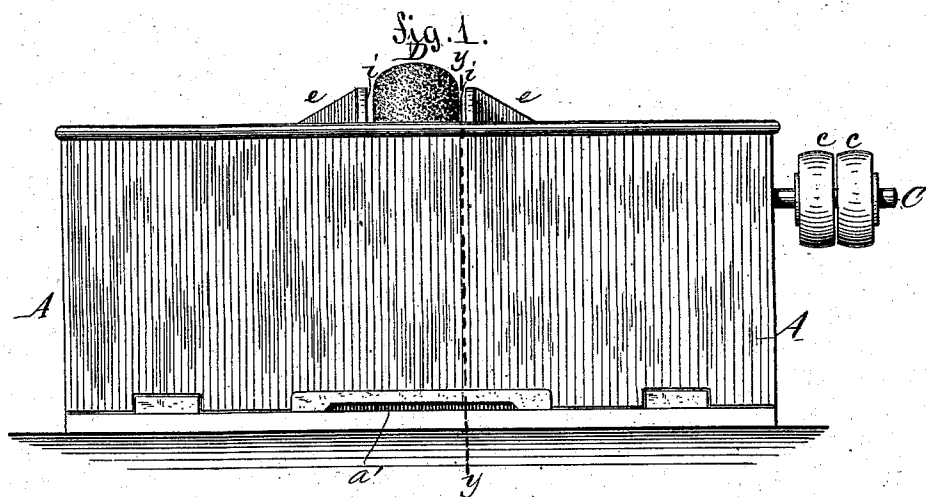


(No Model.)

A. CERF-LANZENBERG.
MACHINE FOR POLISHING LEATHER.

No. 293,308.

Patented Feb. 12, 1884.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ADOLPHE CERF-LANZENBERG, OF PARIS, FRANCE.

MACHINE FOR POLISHING LEATHER.

SPECIFICATION forming part of Letters Patent No. 293,308, dated February 12, 1884.

Application filed September 18, 1883. (No model.) Patented in France March 22, 1882, No. 135,978, and in Belgium April 20, 1882, No. 41,614.

To all whom it may concern:

Be it known that I, ADOLPHE CERF-LANZENBERG, of Paris, in the Republic of France, have invented certain new and useful improvements in Machines for Polishing Kid Leather, for which Letters Patent have heretofore been granted to me by the Government of France under date of March 22, 1882, No. 135,978, and by the Government of Belgium under date of April 20, 1882, No. 41,614, of which the following is a specification.

My invention has for its object the construction of a machine which is designed to supplant the hand in dressing, brightening, or polishing kid leather, principally morocco; and the invention consists of a box or casing having an opening in the top, and of a buffing or polishing wheel that projects through said opening. At each side of the opening, in the top of the inclosing-box, is an upwardly-projecting guide-piece, which directs the current of air onto the buffer, and also serves as a guard to prevent the contact of the skins upon the table with the wheel.

In the accompanying drawings, Figure 1 is a front elevation of my improved leather-polishing machine. Fig. 2 is a longitudinal vertical section on line *x x*, Fig. 3; and Fig. 3 is a cross-section on line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents an outer casing or box, the top of which forms a table for the operation, preferably of rectangular shape. Within the casing is mounted, in bearings of suitable standards, B B, a shaft, C, which is of sufficient length to pass through and beyond one of the end walls of the casing A. The projecting portion of the shaft C, beyond the casing A, is supplied with pulleys *c c*, a tight and loose one, the former being the means of transmitting rotary motion to the shaft C. The buffing-wheel D is so mounted on the shaft C that a segment of the same projects through an opening, *a*, of the top of the casing. The casing A furthermore is supplied at the bottom with an opening or openings, *a'*, which admits the introduction of air to the inside of the box. The polishing or buffing wheel D is constructed with radial arms, to which is applied a rim of oval cross-

section. The rapidly-revolving wheel D draws in the air through the bottom opening and ejects it with considerable force through the narrow spaces *i*, formed by the top opening at both sides of the polishing-wheel D. The air-currents thus obtained cool the leather while it is held by the operator in contact with the polishing-wheel, so that it is not injured by the heat generated by the friction with the buffing-wheel. Should the space *i* at both sides of the polishing-wheel not be sufficient, an additional aperture or apertures could be made in the top of the casing A. The top of the casing A, which, as stated before, forms a table for the workman, is further supplied with guards or fenders *e e* at each side of the polishing-wheel D, which give the proper bearing to manipulate the leather and expose it to the action of the polishing-wheel.

In the construction of the buffing or polishing wheel D, I preferably use metal for the hub, arms, and rim, and cover the latter with gutta-percha or other elastic material shown at *f* which possesses at the same time sufficient resistance. Over this elastic material is stretched flannel, felt, or other fibrous material, *g*, in one or more thicknesses, and laced or otherwise fastened at the inner side of the rim. This outer covering can be readily removed when it becomes dirty or worn.

The machine will thoroughly and uniformly polish the surface of the leather in a much shorter time than by hand without making one portion brighter than another, while the leather is at the same time kept cool, and thereby protected against the injurious influence of heat.

I am aware that buffing-wheels mounted in an open frame have been used, and also machines for whitening and shaving leather having an abrading-roller mounted on posts and provided with an exhaust-fan at the rear, with a separate belt and pulley for operating the fan. I do not claim a machine like these. The wheel of my machine is provided with arms, which serve as a fan-blower and cooler as well as a buffer.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a buffing or polishing machine, the combination of a polishing or buffing wheel

provided with radial arms and a polishing-
face, an inclosing-box having an induction air-
opening at the bottom and an eduction air-
opening at the top, and guards arranged at
5 the sides of the top opening, which serve to
direct the currents of air against the buffer,
and also serve to guard the wheel against con-
tact with the leather upon the table.

2. In a buffing or polishing machine, a buf-
10 fing-wheel having radial arms and a polishing-
face, in combination with a table or platform
having an opening provided with guards at
its sides for directing the air forced through
the opening by the arms of the wheel, sub-
15 stantially as described.

3. A buffing-wheel having radial arms, and

a face of oval cross-section composed of a layer
of rubber and an outer covering of cloth, in
combination with a box having an air-induc-
tion opening at its bottom and an eduction 20
air-opening at its top, provided with guards
at its sides for the purpose of directing the air-
currents against the buffer and preventing it
from heating, substantially as described.

In testimony that I claim the foregoing as 25
my invention, I have signed my name in pres-
ence of two subscribing witnesses.

ADOLPHE CERF-LANZENBERG.

Witnesses:

HIPPOLYTE CERF,
HERMAN STEINFELD.