

UNITED STATES PATENT OFFICE.

DUGALD SCOTT, OF MANCHESTER, ENGLAND, ASSIGNOR TO JONES BROTHERS
& CO., OF SAME PLACE.

WOVEN DUSTER OR POLISHING-CLOTH.

SPECIFICATION forming part of Letters Patent No. 525,669, dated September 4, 1894.

Application filed April 14, 1892. Serial No. 429,217. (Specimens.) Patented in England December 8, 1891, No. 21,399.

To all whom it may concern:

Be it known that I, DUGALD SCOTT, a subject of the Queen of Great Britain and Ireland, residing at Manchester, county of Lancaster, England, have invented an Improved Woven Duster or Polishing-Cloth, (for which I have obtained Letters Patent of Great Britain, No. 21,399, dated December 8, 1891,) of which the following is a specification.

10 The object of this invention is to produce a cheap and efficient substitute for chamois leather intended to be used for polishing cloths, dusters, towels, or other purposes to which the same may be applicable.

15 Hitherto such substitutes for chamois leather and especially silver-polishing cloths have been made by weaving in the ordinary way and "filling" it with a polishing material, but such cloths become useless for the purpose stated as soon as the "filling" is exhausted or the cloth washed. According to my invention however, I dispense with all finishing, filling or dyeing and I produce a cloth which is more suitable for the purposes stated (polishing, dusting, &c.) than any of the substitutes now in use and which for my purposes is even superior to chamois leather itself.

In carrying my invention into practice I manufacture in an ordinary loom a cotton weft pile fabric which is made as what is known as a "fast pile" fabric so that the pile will stand washing and rough usage and so that no loose ends of pile or nap can come out in use. I then cut, crop, and brush the pile thereof and I thoroughly wash or scour the fabric to remove all stiffening matter, grease, or other impurities therefrom. I then take this unbleached fabric and I so singe the pile thereof that the fabric acquires a soft brown color most suitable in appearance for polishing cloths and dusting thereby imitating the buff color of chamois leather without any dyeing of the yarn or woven fabric.

45 This singeing process may precede the washing and scouring if preferred. A border may be printed or woven round each cloth or duster or same may be otherwise ornamented as desired.

The longitudinal parts of the borders may be left uncut when cutting the pile on the central portion without any special weaving, or may be woven specially as a closely woven cloth so that such edges can be left unhemmed and will not fray out, and the transverse parts (to form the transverse border or edges) may be so woven that the weft cannot be cut during the cutting of the pile on the centers of the cloths; this can be easily accomplished by any expert weaver. The width or depth of these borders (*i. e.*, from the pile surface to the edge of the cloth) may be varied according to the purpose for which the article is required. The fabric prepared as above described is then cut up along these prepared borders so as to become suitable for dusters or polishing cloths or other desired purposes, and are now ready for sale and use. In some cases I propose to weave a cloth for this purpose with the pile on both sides.

This fabric is very soft and pliable and the ends of the pile face are very open forming a brush-like surface most suitable for polishing purposes, and the processes of bleaching, dyeing, or finishing thereof are not necessary so that their cost is obviated.

This material is not liable to become hard, greasy, or slimy, like "wash-leather" and can be readily cleansed by washing with hot water and soap; whereas "wash-leather" is most difficult to cleanse when it has once become greasy.

I am aware that a British patent to Pater-son *et al.*, No. 623 of 1862, shows an ordinary method of weaving a continuous weft pile fabric cloth of cotton or other fiber, and then finishing the same by a process of cleaning and milling; and I do not claim this. But my invention is restricted to a specific article which is woven as such, and is then subjected to a singeing operation to produce an effect resembling chamois leather.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

As a new article of manufacture, a polishing cloth or duster, having the central por-

tion thereof formed with an un-bleached cotton weft cut pile surface, and having an un-cut surrounding edge integral therewith, woven as a plain cloth fabric, the cut pile of
5 such cloth being singed to a soft brown color, substantially as and for the purposes described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DUGALD SCOTT.

Witnesses:

JNO. HUGHE,
WALTER GREG.