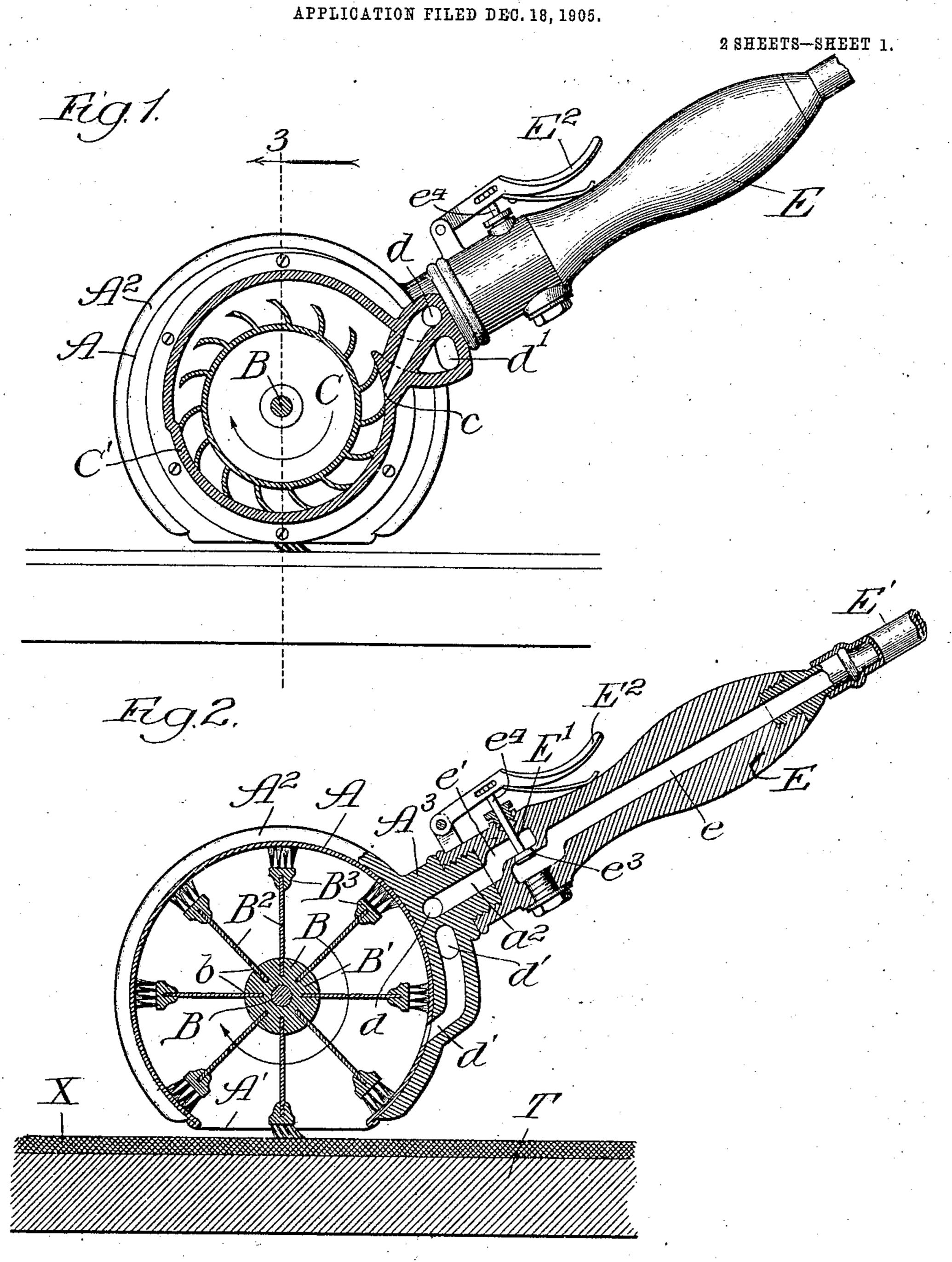
No. 843,377.

PATENTED MAR. 26, 1907.

J. KUDRLE & L. SVOBODA.
CLOTH STEAMING BRUSH.



Whitnesses! John Enders!

Inventors; Saroslav Kudrless (Lawrence Svoboda, By Dyunfrit Dyunfrit & See, HTEiss...

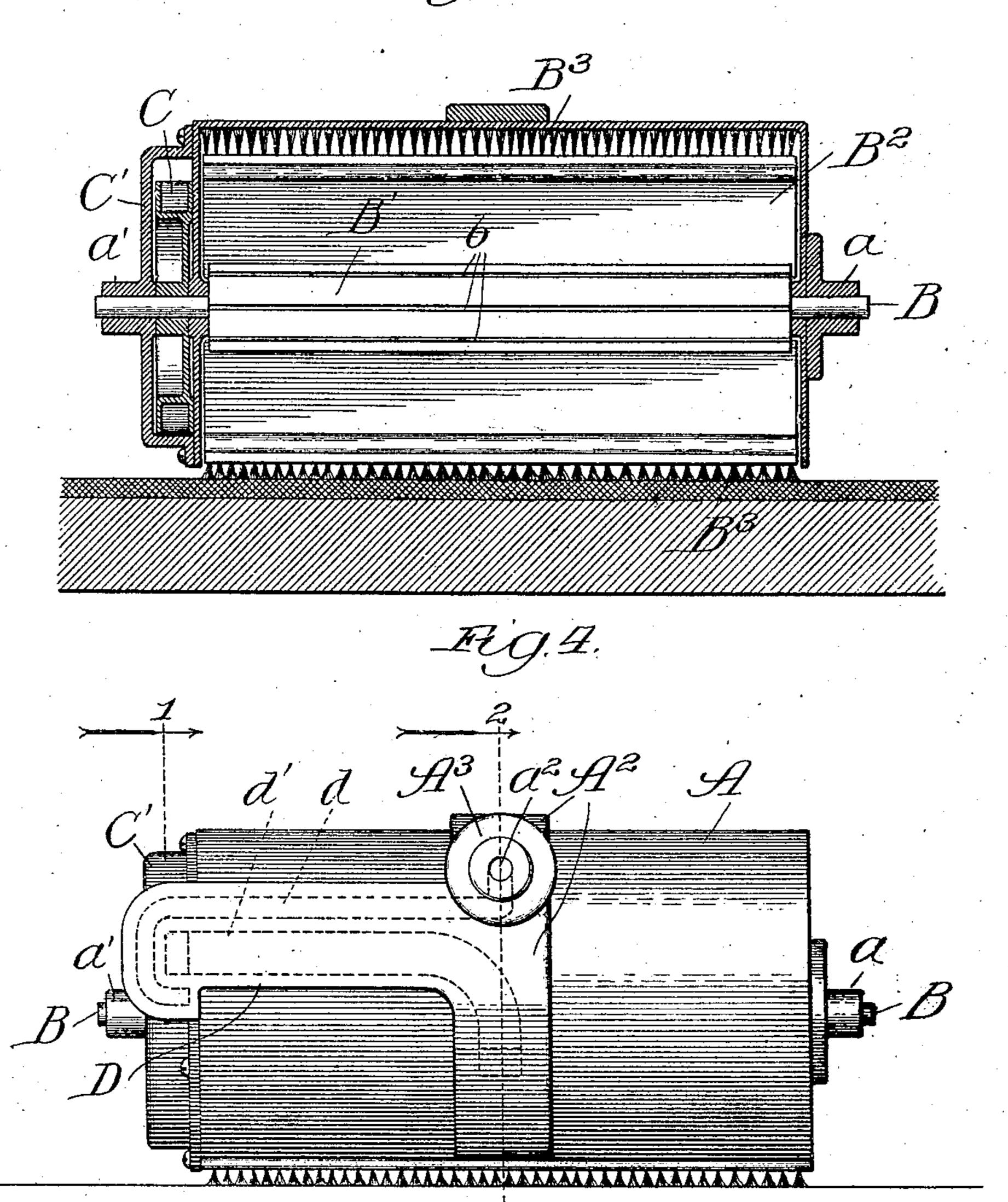
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APPLICATION FILED DEC. 18, 1905.

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Witnesses! John Endere

Inventors: Jaroslav Kudrless Lawrence Svoboda, By Dynnfink, Dynnfink & La.

UNITED STATES PATENT OFFICE.

JAROSLAV KUDRLE AND LAWRENCE SVOBODA, OF CHICAGO, ILLINOIS.

CLOTH-STEAMING BRUSH.

No. 848,377.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed December 18, 1905. Serial No. 292,401.

To all whom it may concern:

Be it known that we, JAROSLAV KUDRLE 5 county of Cook and State of Illinois, have invented a new and useful Improvement in Cloth-Steaming Brushes, of which the following is a specification.

Our invention relates to a device for re-10 moving gloss produced upon cloth during the

pressing operation.

In pressing cloth or cloth garments by means of a heated sad-iron applied to a dampened cloth on the goods an objectionable 15 gloss is commonly produced on the surface of the goods and requires to be removed. Heretofore it has been the practice in removing the gloss to rapidly move the hot iron over a wet cloth laid upon the goods to force 20 the steam from the cloth against the glossy surface, and thus raise the nap. This method is unsatisfactory, since it tends to dampen the goods excessively, with the effect of impairing the result of the pressing operation 25 and requiring the pressing to be performed over again.

One of our objects is to overcome this objection, and we accomplish it by providing a brush device adapted to be swept against 30 the surface of the goods and equipped with means for directing steam against said surface while it is undergoing the brushing op-

eration.

We have illustrated our invention in a pre-35 ferred form of its embodiment in the accom-

panying drawings, in which—

Figure 1 is a view, partly in sectional elevation, of our device, the section being taken at the line 1 on Fig. 4 and viewed in the direc-4° tion of the arrow; Fig. 2, a section taken at line 2 of Fig. 4 and viewed in the direction of the arrow; Fig. 3, a section through the casing with the brush-equipped blades intermediate the upper and lower brush removed 45 from the hub, the section being taken on line 3 in Fig. 1 and viewed in the direction of the rear elevation with the handle removed, showing by dotted lines the steam-passages 5° leading to and from the motor.

A is a cylindrical casing provided with an

opening A' on its under side.

B is a shaft extending centrally through the casing and journaled in bearings a a' at | 55 the ends thereof.

A hub B' surrounds the shaft and is pro-

vided with radial slots or recesses b, in which Be it known that we, Jaroslav Kudrle blades B² of a length approximating the in-and Lawrence Svoboda, citizens of the terior of the casing are secured. The blades United States, residing at Chicago, in the are each provided with a brush-head B3, the 60 bristles of which during the rotation of the shaft B, as hereinafter described, project through the opening A' in the casing against the goods X, as represented in Fig. 2, the goods being laid upon a pressing-table T for 65 undergoing the gloss-removing operation.

C is a steam-turbine of a well-known or any suitable type mounted on one projecting end of the shaft B and covered by a housing C', secured to the adjacent end of the 70 casing. The casing A is provided intermediate of its ends with a circumferential band A², extending to nearly opposite sides of the opening A', having a handle-receiving screwthreaded nozzle A³.

D is a casting extending from the band A² beyond the motor-equipped end of the casing and containing a steam-passage d, leading from a passage a^2 in the nozzle A^3 to the inlet-port c of the turbine.

A handle E screws at one end upon the nozzle A³ and is provided with a steam-passage e, connected by a flexible tube E' with a suitable source of steam-supply. (Not shown.) The passage a² in the nozzle con-85 nects with a passage e' in the handle, the latter passage having controllable communication with the passage e through the medium of the valve E', for which the seat e³ is provided. The valve is suitably connected at 90 its stem e^4 with a spring-pressed operating handle or lever E².

The operation of the device is as follows: The operator holds the implement by the handle E in proper relation to the article X 95 to be subjected to the gloss-removing treatment. In that position of the implement steam is admitted to the turbine by pressing the lever E2, thus opening the valve E', which causes steam to enter the turbine through 100 the passages e, e', and a^2 to rotate it and the brushes B³. After the steam performs its arrow; and Fig. 4, a view of the device in | work in the turbine it is exhausted through the passage d' into the casing A, whence it discharges through the opening A' in the cas- 105 ing against the surface of the goods. Operating the turbine causes the brushes to revolve and sweep across the opening A' against the surface of the goods. The exhaust-steam from the turbine is thus direct- 110 ed against the goods during the pressing operation, thus dampening the surface and

preparing it to enable the brushes to raise the

nap, whereby the gloss is removed.

A motor on the brush-shaft is not an indispensable feature of our invention, since it 5 is quite feasible to drive the brushes by the impact force of the steam directed against the brush-blades.

What we claim as new, and desire to secure

by Letters Patent, is—

1. In a cloth-steaming brush, the combination of a casing provided with an opening for directing steam against the goods under treatment, a brush device rotatably mounted in said casing to sweep against the surface 15 of goods through said opening, means for rotating said device, and means for introducing steam into said casing and against the goods through said opening, whereby the steam and brush device coact against the goods, 20 for the purpose set forth.

2. In a cloth-steaming brush, the combination of a casing provided with an opening, brushes rotatably mounted in said casing to sweep against the goods through said open-25 ing, steam-actuated means for rotating the brushes, and an exhaust-passage leading from said steam-actuated means to the interior of the casing to discharge the exhauststeam, through said opening, whereby the 30 steam and brushes coact against the goods, for the purpose set forth.

3. In a cloth-steaming brush, the combination of a casing provided with an opening, a shaft rotatably mounted in the casing, brushes extending radially from said shaft 35 and adapted to sweep against the surface of goods through said opening, a steam-operated turbine connected with said shaft to rotate the brushes, and an exhaust-passage leading from the turbine to the interior of 40. the casing for directing exhaust-steam therethrough and through said opening against

the goods, for the purpose set forth.

4. In a cloth-steaming brush, the combination of a cylindrical casing provided with 45 an opening, a shaft journaled therein, blades extending radially on said shaft and equipped at their outer ends with brushes adapted to sweep against the surface of goods through said opening, a steam-turbine on the shaft at 50 one end of the casing for rotating the brushes, a handle provided with a valved steam-supply pipe connected with the turbine, and an exhaust-passage leading from said turbine to the interior of the casing for directing steam 55 therethrough and through said opening against the goods, for the purpose set forth.

JAROSLAV KUDRLE. LAWRENCE SVOBODA.

In presence of— J. H. LANDES, W. B. DAVIES.