# JILLSON & WHINFIELD.

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Bleaching Apparatus.

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No. 13,650.

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### Patented Oct. 9, 1855.



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J. Afillson. Hinry Whinfield.

#### N. PETERS, Photo-Lithographer, Washington, D. C.

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## UNITED STATES PATENT OFFICE.

J. A. JILLSON AND H. WHINFIELD, OF POUGHKEEPSIE, NEW YORK.

APPARATUS FOR WASHING AND BLEACHING FIBROUS AND TEXTILE SUBSTANCES.

Specification forming part of Letters Patent No. 13,650, dated October 9, 1855; Reissued July 24, 1866, No. 2,320.

To all whom it may concern: Z is a movable cover used in the inner Be it known that we, JULIUS A. JILLSON, cylinder E or in the cylinder A perforated of the city of Poughkeepsie, county of similar to the strainer D or F for the pur-Dutchess, and State of New York, and pose of keeping the wearing apparel. &c...

5 HENRY WHINFIELD, of the city, county, and said State, have invented new and useful Improvements in Washing Articles of Wearing-Apparel and Various Textile and Fibrous Substances and Materials; and we 10 do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, representing the machine, in which—

same letters having reference to the same parts in each view.

B, is the air tight cover.

C, is a set screw in a movable arch confining the cover B.

D, is a strainer fixed or movably made of The method of washing or cleaning the said metal, cloth, or paper or their equivalent wearing apparel and the various textile fab-25 resting on a rib or bracket in the cylinder A. rics or substances or dirt and gum from ani- 80 E is a movable inside cylinder with mal or vegetable woods, silks rags and all strainer F made similar to strainer D. other materials or substances of a similar G is a furnace under cylinder either for nature is by placing any of the last named heating air or liquids. articles, materials or fabrics in the cylin-H is a cock to run off the liquids or refuse. der A or E and having also placed a suffi- 85 30 I is a double or single acting force pump cient or desired quantity of cleaning liquid with valves, piston and piston rod to be in the cylinder A, made of soap or any other driven by hand or power. J and K are composition or equivalent either hot or cold cocks on said pump for air or liquid. as the case may require, and the pump be-35 L is a value and chamber at bottom of ing set in motion our said method com- 90 mences either in the ordinary way or by pump. M, is value and chamber at top of pump. force or in a vacuum or partial vacuum N, is pipe connecting bottom of cylinder either by heat or otherwise made in said A with the lower value L of pump. machine or similar or equivalent by open-40 O is pipe connecting with cylinder A and ing the stop cocks R and J and closing the 95 stop cocks K, P, Y and S a vacuum or valve L. P, is pipe connecting top of pump with partial vacuum will be obtained, and having top of cylinder A and passing through all the stop cocks closed except S and Q valve M. which are open and a sufficient or desired 45 Q R and S, are three stop cocks for changquantity of cleaning liquid having been 100 placed in the said cylinder A with the said ing the working of the machine herein described. articles, materials or fabrics &c., before T, is a small chamber connected with named and working the pump as before depump I and cylinder A, by the pipe X. scribed the cleansing liquid is forced and ro-U, is a cover to small chamber T. 50tated through and through the said wearing 105 V is a set screw confining the cover U, air apparel and the various textile and fibrous tight. fabrics or substances or animal or vegetable W is a glass cup or dish in said small wools, silks, rags and all other materials of chamber T. a similar nature without rubbing or injur-Y is a stop cock in pipe X. ing the same, until in a short time every 110 55

pose of keeping the wearing apparel, &c., substances or other materials in said cylin- 60 ders E and A, level and of a uniform height and also making a uniform distribution on the surface of the contents of said cylinders A and E.

a a, is a pipe pressing through and around 65 furnace G, and connected with the top of cylinder A at b b with a shut cock C, C, when not used.

To enable others skilled in the art to make 15 Figure 1 is an elevated perspective view, and use our invention we will proceed to 70 and Fig. 2 is a vertical sectional view, the describe its construction and operation. We construct the said machine of any suitable material such as brass, copper, zinc, tin, iron A, is the cylinder. galvanized or wood or their equivalents of 20any given size or shape suitable or equiva- 75 lent to perform and operate on the various textile and fibrous fabrics or substances.

### 13,650

particle of dirt or gum, &c., is removed and taken out and refuse or dirty liquid discharged by the cock H or retained in any suitable place for colored clothes, &c. Then 5 by opening the cock K which is or can be connected with either hot or cold water a stream of clean water can be introduced for rinsing purposes and rotated through and through and continued and changed until 10 in a few minutes the contents of the said cylinders will be entirely cleansed and rinsed without removing, twisting, or injuring the said contents of said cylinders. By the machine the articles after being 15 washed and rinsed can be dried under its operation in this way by closing the stop cocks S, Y and Q and removing the cover B of the cylinder A when cold air is used and rotating the pump a stream of air is 20 drawn through the contents of said cylinders A and E and discharged at J, or with cording to the description substantially. hot air when required by closing the said stop cocks S, Y, K and Q and opening the stop cock C which admits hot or heated air 25 through the pipe a, a, from the furnace G, by the pipe b into the top of the cylinder 1S— A with the cover air tight and the stop cock J open, then rotating the pump a current or stream of heated air will be forced con-30 tinuously through and through the said conpurposes herein set forth. tents of said cylinders until in a very short J. A. JILLSON. time they will be dried sufficiently for ironing. Witnesses as to Julius A. Jillson: There is attached to this machine as

by closing the stop cocks J, R and S will 40 escape from the said chamber T by the pipe X, then open the stop cocks R, Y and P rotate the pump and the said bleaching or disinfecting gases or liquids are forced through and through over and over in a 45 vacuum or partial vacuum or in the ordinary way until in a very short time the contents of the said cylinders A and E will be perfectly bleached or disinfected and then by closing the stop cocks J, K, P and S the 50 said bleaching or disinfecting gases or liquids can be nearly all forced back into the small chamber T, and retained in the same by closing the stop cock Y until wanted again the cylinder A can then be opened 55 and contents removed. In fact, the washing or cleansing, rinsing, bleaching, and drying can be completed without taking any of the aforesaid articles, materials or substances out of by a machine constructed ac- 60 Having now described and fully set forth our invention, what we claim as new and desire to have secured to us by Letters Patent 65 Combining with the washing, extracting or receiving chamber the double acting force pump and the disinfecting or bleaching vessel operating substantially as and for the HENRY WHINFIELD.

35 shown by letter T, a small chamber or vessel with pipes connecting to said machine for the purpose of generating and passing into the washing chamber or cylinder A and E, bleaching or disinfecting gases or liquid

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SILAS E. HAIGHT, Abm. Fonda. Witnesses as to Henry Whinfield: SILAS E. HAIGHT, J. H. GODDARD.

[FIRST PRINTED 1912.]

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