

LUKE M. HEERY.

Improvement in Cloth-Steaming Apparatus.

No. 115,200.

Patented May 23, 1871.

Fig. 1

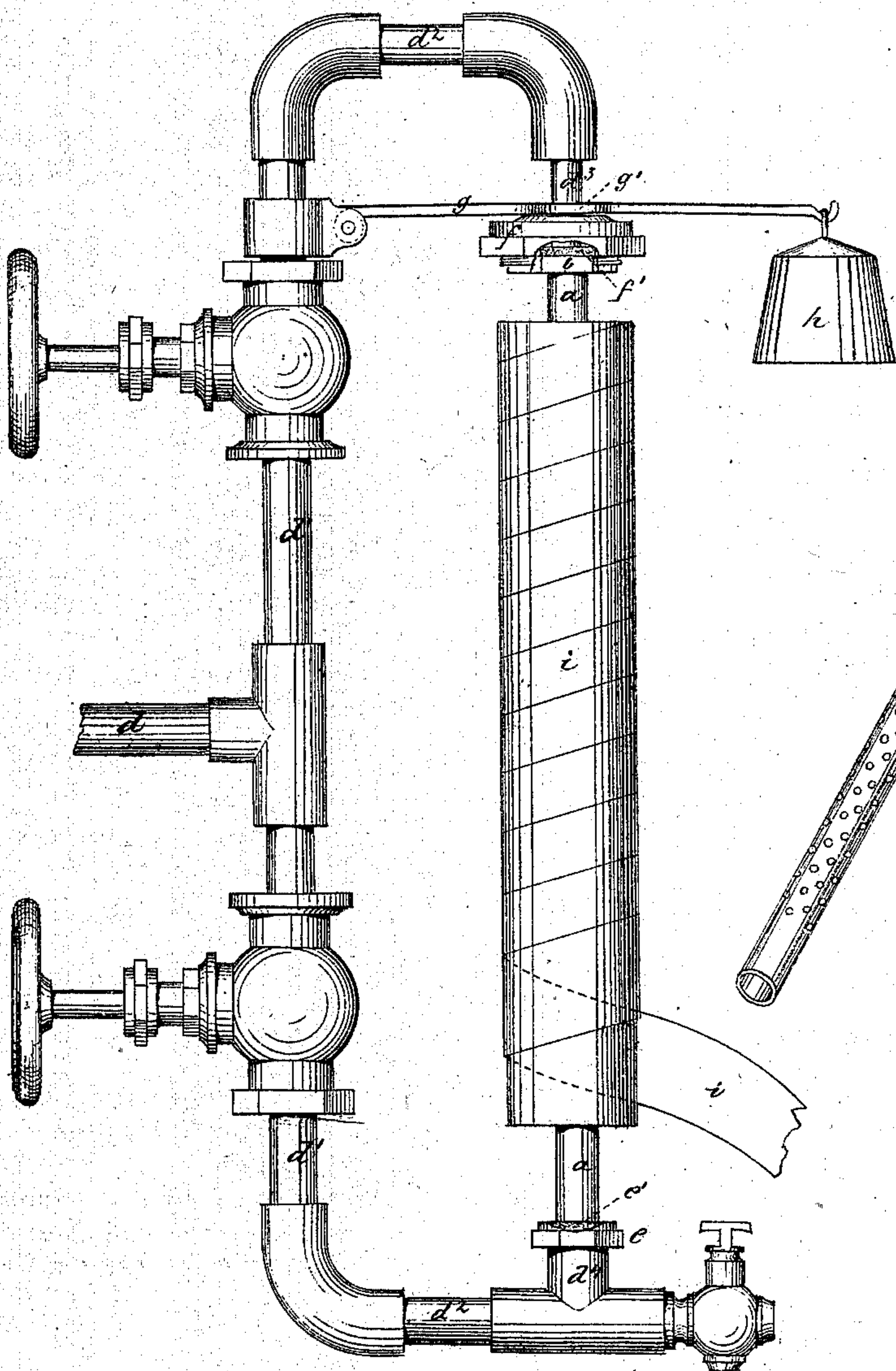
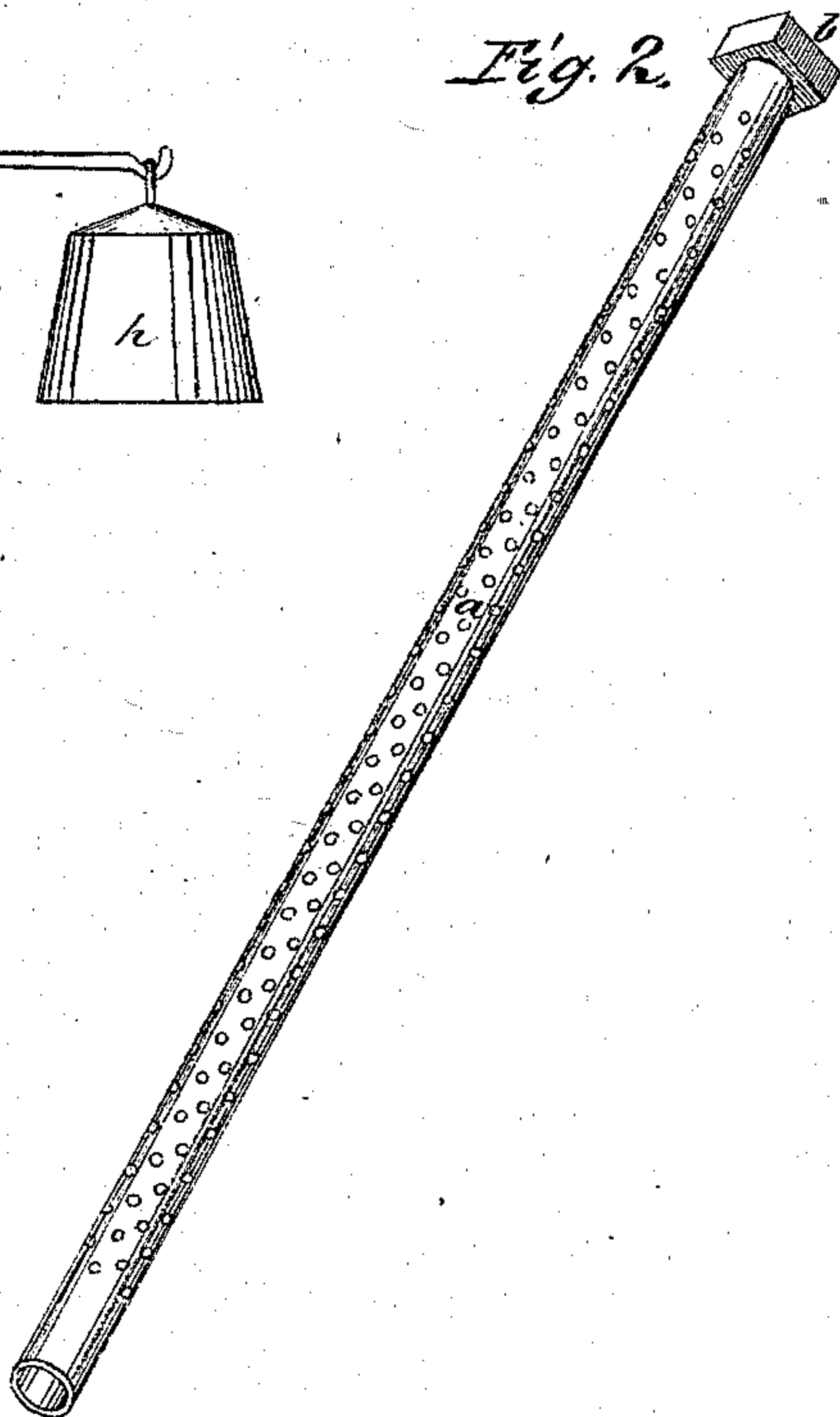


Fig. 2



Witnesses,
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UNITED STATES PATENT OFFICE.

LUKE M. HEERY, OF HINSDALE, MASSACHUSETTS.

IMPROVEMENT IN CLOTH-STEAMING APPARATUS.

Specification forming part of Letters Patent No. 115,200, dated May 23, 1871.

I, LUKE M. HEERY, of Hinsdale, Berkshire county, Massachusetts, have invented a certain Improved Cloth-Steaming Apparatus, of which the following is a specification:

Figure 1 is a side elevation of the apparatus with the roll in place, and Fig. 2 is a perspective view of the cylinder.

This invention relates to that part of the manufacture of woollen cloth which consists in subjecting it to the action of steam, for the purpose of imparting luster to the fabric, by forming an enwrapped roll of cloth around a hollow cylinder, to the interior of which steam is admitted, the steam escaping therefrom through perforations in the shell of the cylinder; the invention consisting in a certain novel arrangement for securing tight joints between the cylinder and the pipes which supply it with steam; and, also, in a novel arrangement of the wrapper that incloses the roll of cloth.

Referring to the drawing, *a* is the hollow perforated cylinder, the same having a head, *b*, through which, also, the bore of the cylinder runs. *d* is the main steam-pipe, and *d*¹ are two branches of the same, extending one upward, the other downward, both branches being horizontal at *d*², and terminating, the upper one in a downwardly-projecting nozzle, *d*³, and the lower one in an upwardly-projecting nozzle, *d*⁴. *e* is a horizontal shoulder on the lower pipe *d*¹ at the base of the nozzle *d*⁴. *e*' is a rubber packing surrounding the nozzle *d*⁴ and resting on the shoulder *e*. *f* is a block that slides on the nozzle *d*³, and *f*' is a packing placed below and secured to the said block. The nozzles *d*³ *d*⁴ are of a size to fit closely within the ends of the cylinder *a*, which, when placed between them, is necessarily held

in a vertical position. A lever, *g*, pivoted at one end to any suitable support, and bearing an enlargement, *g*', through which is made an orifice that the upper nozzle passes through, plays on the latter above the block *f*. When the cylinder *a* is in place, with the roll of cloth on it, a weight, *h*, may be hung upon the outer end of the lever *g*, which weight presses the block *f* and its packing *f*' down upon the head *b*, and also presses the lower end of the cylinder down upon the packing *e*', thus securing steam-tight joints. When the cloth has been thus sufficiently steamed, if the steam be shut off and cold water allowed to enter the cylinder through the pipes *d* *d*¹, the roll will be quickly cooled and the luster "set;" the use of cold water in this manner greatly expediting the finishing of the cloth.

My improved wrapper consists of a bandage, *i*, of any suitable material, wound spirally around the roll so as to hold evenly every part of it under the pressure of steam. Heretofore the wrapper has been wound straight around the roll and tied by strings. A wrapper thus secured does not hold the cloth evenly, and, moreover, the strings leave marks in the cloth which diminish its value. With the spiral wrapper no strings are required.

I claim as my invention—

1. The cylinder *a*, provided with the head *b*, and combined with the pipes *d*¹, packings *e*' *f*', block *f*, and lever *g*, as specified.

2. A spiral wrapper for enveloping a cloth-bale while steaming the same, as specified.

LUKE M. HEERY.

Witnesses:

JAMES W. HEERY,
FRANK MAXWELL.