

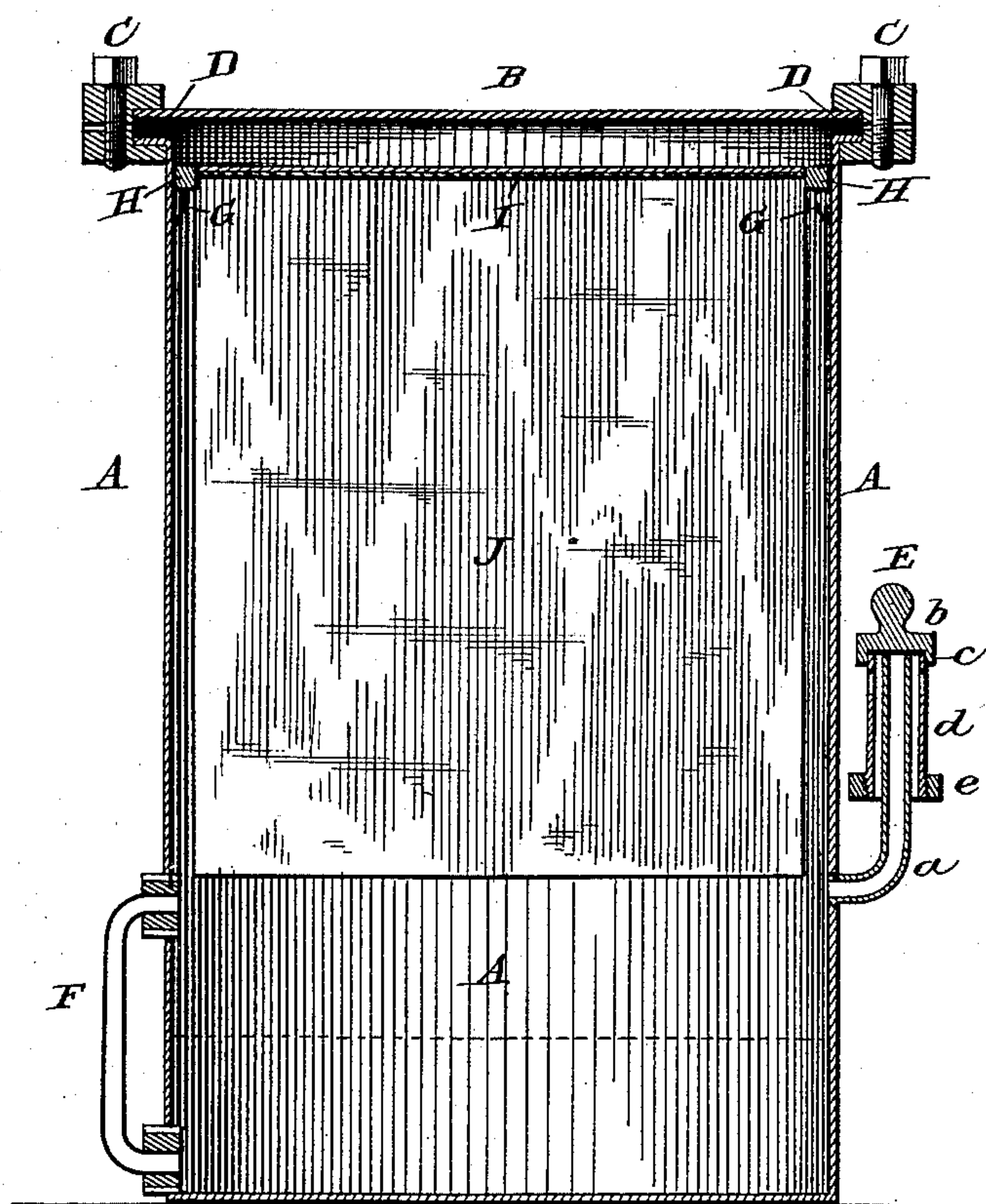
(No Model.)

D. G. GRIFFIN.

DEVICE FOR EXPOSING HAIR TO THE ACTION OF HEATED VAPORS.

No. 278,129.

Patented May 22, 1883.



Witnesses:

A. M. Long.

Luther V. Moullton.

Inventor.

Mrs. Dora G. Griffin.

# UNITED STATES PATENT OFFICE.

DORA G. GRIFFIN, OF GRAND RAPIDS, MICHIGAN.

DEVICE FOR EXPOSING HAIR TO THE ACTION OF HEATED VAPORS.

SPECIFICATION forming part of Letters Patent No. 278,129, dated May 22, 1883.

Application filed February 18, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, DORA G. GRIFFIN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Device for Exposing Hair to the Action of Heated Vapors Under Pressure, of which the following is a specification.

My invention relates to improvements in apparatus used in processes designed to cause hair to retain any desired form.

My invention consists in providing means for subjecting the hair to the action of vapors from certain suitable materials without allowing said hair to come in contact with either the solid or non-volatile portions of said materials or with the vessel containing the same, as illustrated in the accompanying drawing, which represents a vertical section of my device.

A is a strong metal cylinder closed at the bottom, in the lower part of which is placed a sufficient quantity of water containing some substance the vapor from which will produce the desired effect upon the hair and to the bottom of which heat is applied in any convenient manner. Said cylinder is provided with a cover, B, secured by cap-screws C, and made steam-tight by packing D. Said cylinder is also provided with a glass water-gage, F, to indicate the amount of liquid in said cylinder; also, with a safety-valve, E, to regulate the pressure within said cylinder. Within the cylinder A is placed a removable hoop, H, which

rests upon the brackets G. Said hoop is provided with cords I to support the hair, and a curtain or apron, J, of cloth or other suitable material to keep the hair from coming in contact with the sides of the vessel A. The safety-valve E is placed low down in the steam-space, so that it may be used as an air-cock when steam is first raised in the vessel A. Said valve consists of a bent tube, *a*, on the top of which rests a cap, *b*, provided with a rubber packing, *c*, and a short tube, *d*, in which are holes for the escape of steam, as shown, and to which may be attached weights *e* to determine the pressure necessary to open said valve.

I am aware that hair has been subjected to the action of vapors in an open vessel at atmospheric pressure, and this I do not claim; but

What I do claim, and wish to secure by Letters Patent, is as follows:

1. In combination with the vessel A, the brackets G, hoop H, and cords I.

2. In combination with the vessel A, brackets G, hoop H, and cords I, the curtain J.

3. A device for applying heated vapor to hair, consisting of the vessel A, provided with the cover B, screws C, packing D, gage F, safety-valve E, hoop H, cords I, brackets G, and curtain J.

DORA G. GRIFFIN.

Witnesses:

DENNIS L. ROGERS,  
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