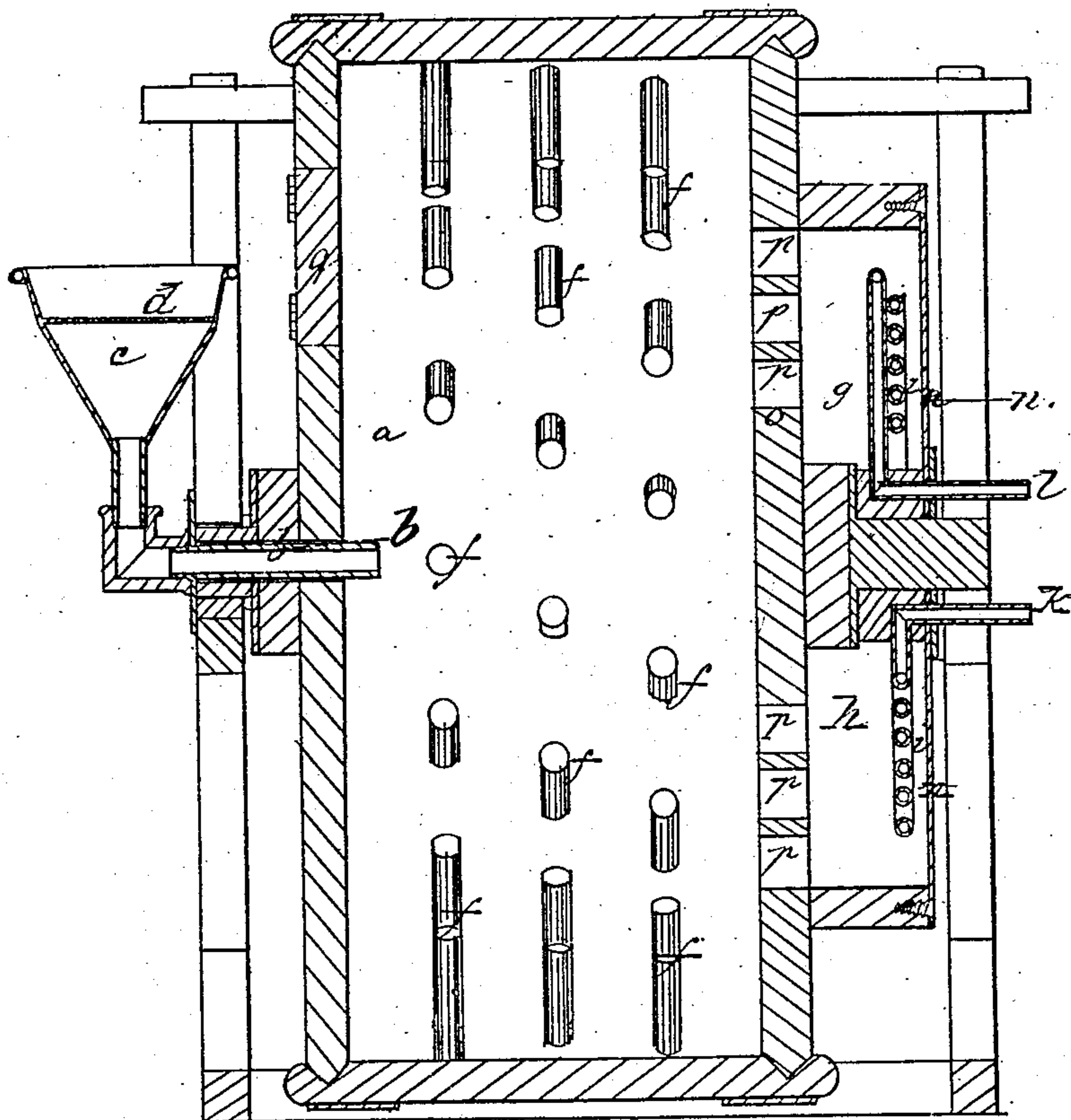


*J. W. Schayer,*  
*Dressing Leather,*  
*No 78,835,      Patented June 9, 1868.*



*Witnesses*  
*C. Warren Brown*  
*J. B. Kidder*

*Inventor:*  
*J. W. Schayer*  
*by his attorneys*  
*Crosby, Hilditch & Gould*

# United States Patent Office.

JOSEPH W. SCHAYER, OF BOSTON, MASSACHUSETTS.

*Letters Patent No. 78,835, dated June 9, 1868.*

## IMPROVED MACHINE FOR STUFFING LEATHER.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSEPH W. SCHAYER, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an Improvement in Wheels for Oil-Stuffing Leather; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

My invention relates to the construction of rotary wheels or drums for oil-stuffing leather with reference to the means of heating them. The common practice is to heat up such a wheel by means of burning coals placed within it, or by means of steam-pipes running into or through the wheel. The objection to the first method is that the surfaces of the wheel against which the leather is thrown become heated to such degree as to burn or injure the leather, and in the second method the steam-pipes often injure the leather in the same manner.

The object of my improvement is to so construct a stuffing-wheel that the heated surfaces shall be outside of the wheel, or in such position that they heat the chamber, but are beyond the reach of the skins to be stuffed; and my invention consists in combining with a leather-stuffing wheel a heating-apparatus placed within a hollow head at the end of the wheel, said head being separated from the wheel-chamber by a perforated or open-work partition.

The drawing represents a central vertical section of a stuffing-wheel embodying my improvement.

*a* denotes the rotary chamber in which the skins to be stuffed are placed, this chamber being provided with an axial oil-pipe, *b*, having a funnel-shaped mouth, *c*, and a strainer, *d*, oil being thrown into the wheel through this pipe.

The inner curved surface of the wheel is studded with pins, *f*, which take up and drop the skins in the usual manner.

At one end of the wheel is the heater-drum *g*, the chamber *h* of which contains a steam-coil, *i*, having inlet and outlet-pipes, *k l*, leading to and from the steam-coil.

The chamber *h* has an outer tight head, *n*, but the opposite head (which is the head *o* of the wheel *a*) is provided with passages, *p*, communicating between the chamber *a* and the chamber *h*.

It will readily be seen that this open partition, *m*, while sufficient to prevent any possible contact of the skins with the heated coil, permits free access of the heated air to the stuffing-chamber, and enables the interior of the chamber to be kept at a uniform heat, or to be heated to any desirable degree, while the wheel is in operation.

I am aware that flat steam-heated plates or boxes have been located within a stuffing-wheel, adjacent to the heads thereof, but such construction does not remove the objection to which I have previously alluded, as these heated plates or boxes are not separated from the stuffing-chamber and from contact with the skins.

The wheel is charged with skins through a door, *q*. In stuffing-wheels as now constructed, the oil is put into the chamber when the wheel is stationary, or when the skins lie together at the bottom of the chamber, and the oil fails to be brought into direct contact with all parts of the skins.

To remedy this, I carry the oil-pipe axially into the wheel, the wheel being mounted on a tubular axle, through which the oil-pipe extends, and by this means the oil can be thrown into the wheel while in rotation, and while the skins are distributed about its surface, the oil being thereby brought into contact with all the skins, and in such manner as to cause them to be uniformly subjected to the action or operation of the oil.

I claim, in combination with a stuffing-wheel, a heating-apparatus placed in a chamber, *h*, auxiliary to and opening into the stuffing-wheel, but separated therefrom by an open-work or perforated partition, *m*, substantially as described.

I also claim combining with a rotary stuffing-wheel an axial pipe, through which oil may be thrown into the stuffing-chamber while the wheel is in rotation, substantially as described.

JOSEPH W. SCHAYER.

Witnesses:

J. B. CROSBY,

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