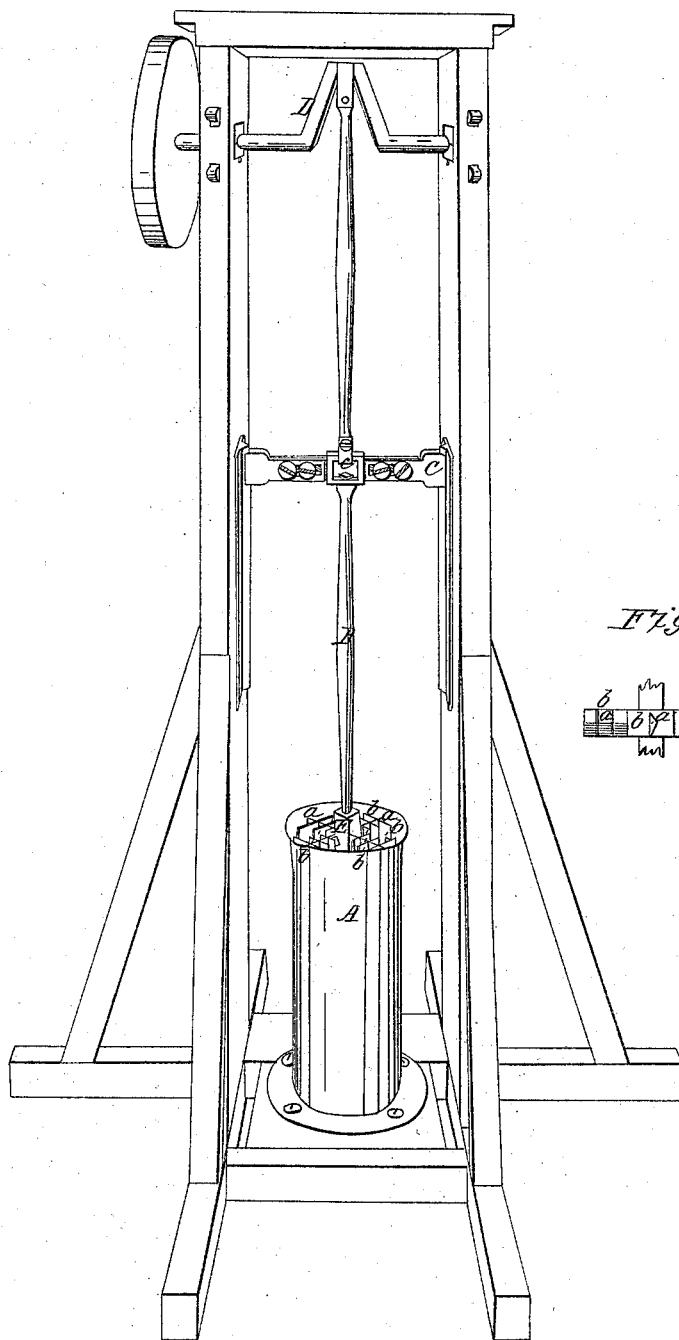
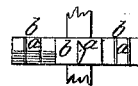


*J. W. W. Gordon,*  
*Making Mercurial Ointment.*  
*N<sup>o</sup> 3,619.                      Patented June 5, 1844.*

*Fig 1.*



*Fig 2*



# UNITED STATES PATENT OFFICE.

JAMES W. W. GORDON, OF BALTIMORE, MARYLAND.

## MACHINE FOR MAKING MERCURIAL OINTMENT.

Specification of Letters Patent No. 3,619, dated June 5, 1844.

*To all whom it may concern:*

Be it known that I, JAMES W. W. GORDON, of the city of Baltimore, in the State of Maryland, have invented a new and useful improvement in the manner of constructing machines for the manufacturing of mercurial ointment, blue mass, putty, and various other unctuous articles that require different materials to be prepared by the intimate mixture of the substances of which they are composed; and I do hereby declare that the following is a full and exact description thereof.

The materials which are to be incorporated with each other, I place in a vertical cylinder firmly fixed to the frame-work of the machine; above this, I place a crank shaft, which operates a piston rod, to a hub, on the lower end of which rod is attached a combination of knives, or cutters, of a peculiar construction, and which are moved up and down within the vertical cylinder, in the manner of a piston. I, in general, employ four such knives, which project radially from the lower end of the piston rod; but this number may be varied; to each of these radiating knives I usually attach two, three, or more, auxiliary knives, or cutters, which project out from the main knives at either side, standing at right angles, or nearly so, to them; these auxiliary knives render the operation of mixing more expeditious than when the radiating knives alone are used; but the number of radiating knives may be increased, and the auxiliary knives dispensed with.

The radiating knives I make flat on one side, which flat side stands vertically within the cylinder; the opposite sides of each of these knives have a double bevel, the two forming an obtuse angle along the middle of the blade. The flat sides are all in one direction, and the piston rod is attached to the cross head, by a swivel joint, which allows it to rotate. The result of this arrangement is that as the combined radiating

knives ascend and descend in the mass, their beveled sides, in passing through it, cause them, and the rod to which they are attached, to rotate toward the flat sides of the knives, and that in a degree proportioned to the inclination of the beveled sides.

In the accompanying drawing, A, is the cylinder; B, is the piston rod; C, the cross head, and D, the crank. E, is a hub at the bottom of the piston rod, to which the radiating knives are attached, which knives are of such length as nearly to touch the inside of the cylinder. Fig. 2, is a side view of the combined knives *a, a, a'*; an end view of one of them being shown at *a'*; the auxiliary knives are shown at *b, b*; the piston swivels in the cross head at *c*.

This machine may vary in size, so as to manufacture in the large, or the small, way; and it may be moved by hand, or by any suitable motive power. As a machine for making the mercurial preparations, it has been found to extinguish the mercury more rapidly than any plan which has been essayed; and it is, of course, perfectly effective in making other mixtures, or compounds, of a texture suitable to be operated upon by its means.

Having thus, fully made known the nature and operation of my machine for manufacturing mercurial ointment, blue mass, and other unctuous mixtures, or compounds, what I claim therein as new, and desire to secure by Letters Patent, is—

The manner of forming and arranging my combined knives, each of them having a flat, and a double-beveled side, and being attached, in the manner set forth, to a piston rod which is allowed to rotate; said combined knives operating in a cylinder, in the manner and for the purpose herein fully set forth.

JAS. W. W. GORDON.

Witnesses:

THOS. P. JONES,  
EDWIN L. BRUNDAGE.