H. PARKER.

CYLINDER MOLD FOR PAPER MAKING MACHINES AND THE LIKE.

APPLICATION FILED JAN. 22, 1908.

902,505. Patented Oct. 27, 1908.

Fig. 1.

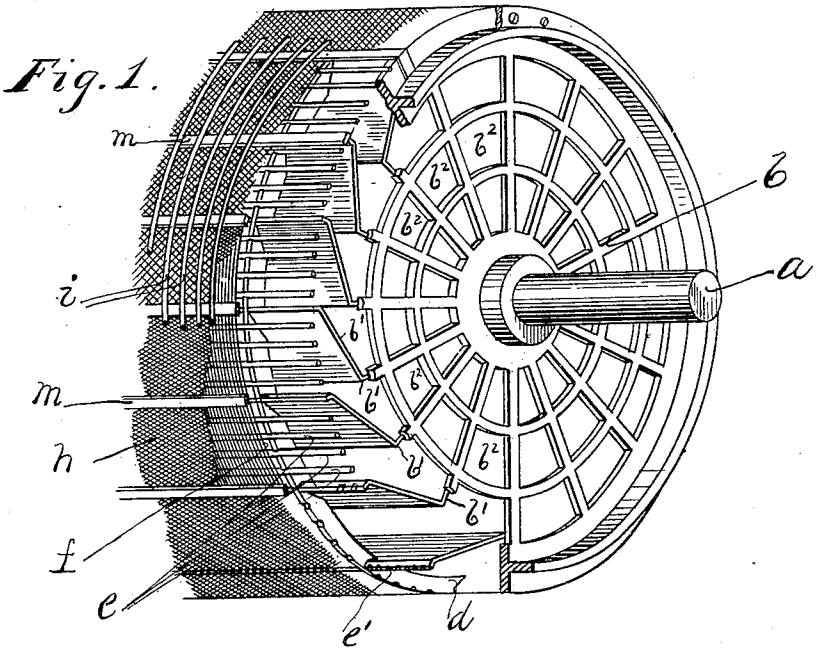
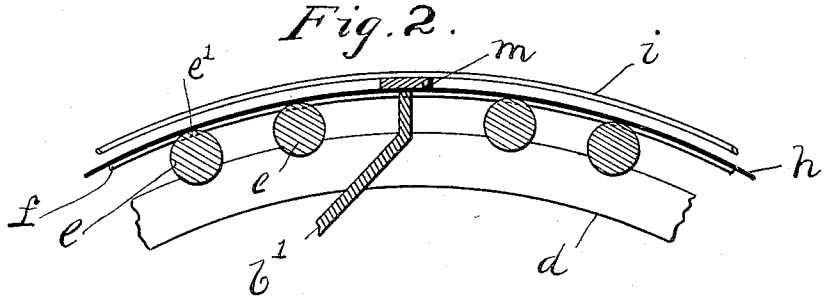


Fig. 2.



Witnesses.
L. E. Berkovitch
[illegible]

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by [illegible]
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UNITED STATES PATENT OFFICE.

HOWARD PARKER, OF NASHUA, NEW HAMPSHIRE, ASSIGNOR TO IMPROVED PAPER MACHINERY COMPANY, OF CASTINE, MAINE, A CORPORATION OF MAINE.

CYLINDER-MOLD FOR PAPER-MAKING MACHINES AND THE LIKE.

No. 902,505. Specification of Letters Patent. Patented Oct. 27, 1908.

Application filed January 22, 1908. Serial No. 412,134.

To all whom it may concern:

Be it known that I, HOWARD PARKER, a citizen of the United States, residing at Nashua, in the county of Hillsboro, State of New Hampshire, have invented certain new and useful Improvements in Cylinder-Molds for Paper-Making Machines and the Like, of which the following is a specification.

The object of my invention is to produce an article of the character described having features of novelty and advantage.

In the drawings—Figure 1 is a perspective view of a mold showing my invention. Fig. 2 is a detail view on enlarged scale.

Referring to the drawings *a* is the shaft of the mold and *b* the frame. The frame, as shown in the drawings, is made up of a series of longitudinal partitions *b'* seated at their inner edges in the shaft *a* and forming between them compartments b^2. This frame supports the shell of the roll. This shell is formed by slotting the outer edges of the partitions to receive and support the rings *d* which are notched in their peripheries to receive and support the rods *e* which extend lengthwise of the cylinder. These rods preferably are notched on their outer sides, as indicated at *e'*, and a wire *f* is wound about the rods in these notches. The edges of the partitions preferably project slightly above the surface of these rods *e* and are notched to a depth at least equal to or slightly greater than the diameter of the wire *f* so that the wire passing through the notches in the edges of the partitions lies at least even with the edges of the partitions, and thus the edges of the partitions mark the highest points in the periphery of the frame. Superimposed on this frame is a fine screen *h* of textile fabric, either in the form of a fine wire cloth or a silk cloth, preferably the latter, this screen being drawn tightly about the roll with its edges secured in some suitable way so as to hold the screen in place.

Along the edge of each partition and immediately on top of the screen there is now tightly stretched a packing material *m*, such as cotton tape. Finally a wire or thread *i* is wound about the roll binding the packing strips onto the screen and the screen tightly against the edges of the partitions. These rolls are used under conditions in which the various compartments formed by the partitions are subjected to a suction and blowing action at different times and it is essential that each compartment be isolated from its adjacent compartments so that the force of either the suction or blowing action shall not pass from one compartment to another over the edges of the partitions and under the screen. Great trouble has been experienced in accomplishing this isolation of the compartments.

I provide against any leakage from one compartment to another by the use of the packing strips laid immediately on top of the screen along the edges of the partitions and binding the packing strips onto the screen and the edges of the partitions by the outside wire or thread.

I claim as my invention:—

1. In a roll of the character described a frame comprising a shaft and radial partitions extending lengthwise thereof and forming compartments, a shell for said frame, a screen of textile material stretched over said frame and lying on the edges of said partitions, a packing material located along the edges of said partitions immediately above said screen, and means for binding said screen between said packing material and the edges of said partitions.

2. In a roll of the character described a frame comprising a shaft and radial partitions extending lengthwise thereof and forming compartments, a shell for said frame, a screen of textile material stretched over said frame and lying on the edges of said partitions, and a packing material stretched along the edges of said partitions immediately over said screen, and a spirally wound wire binding said packing screen between said packing material and the edges of said partitions.

In testimony whereof I affix my signature in the presence of two witnesses.

HOWARD PARKER.

Witnesses:
F. E. SMITH,
H. P. GREELEY.