

(No Model.)

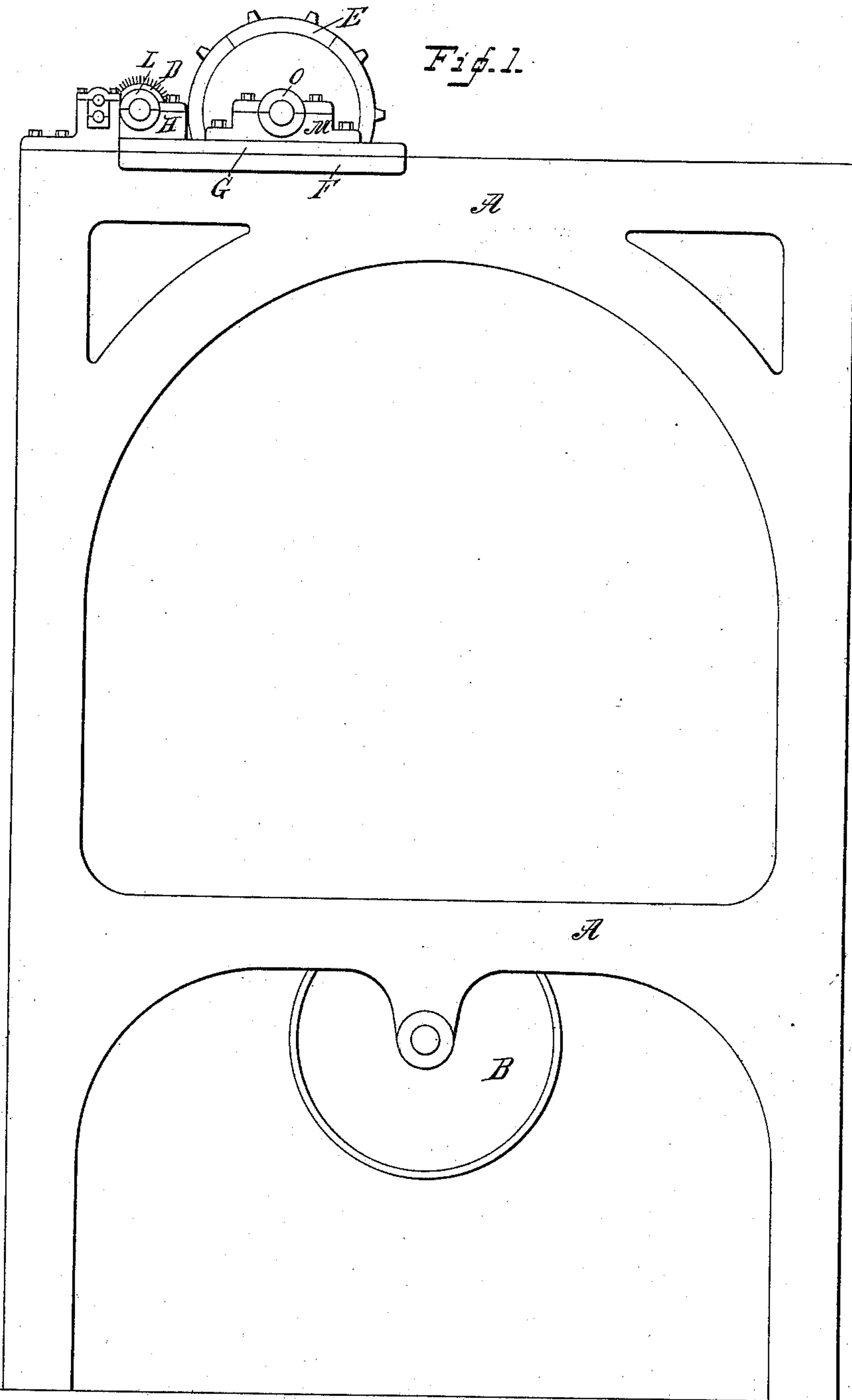
2 Sheets—Sheet 1.

R. A. BELDEN.

BEARING FOR FUR BLOWING MACHINES.

No. 331,181.

Patented Nov. 24, 1885.



Witnesses,

C. C. Perkins.
W. D. Porter.

Inventor,

Russell A. Belden
By J. A. Wooster.
att'y.

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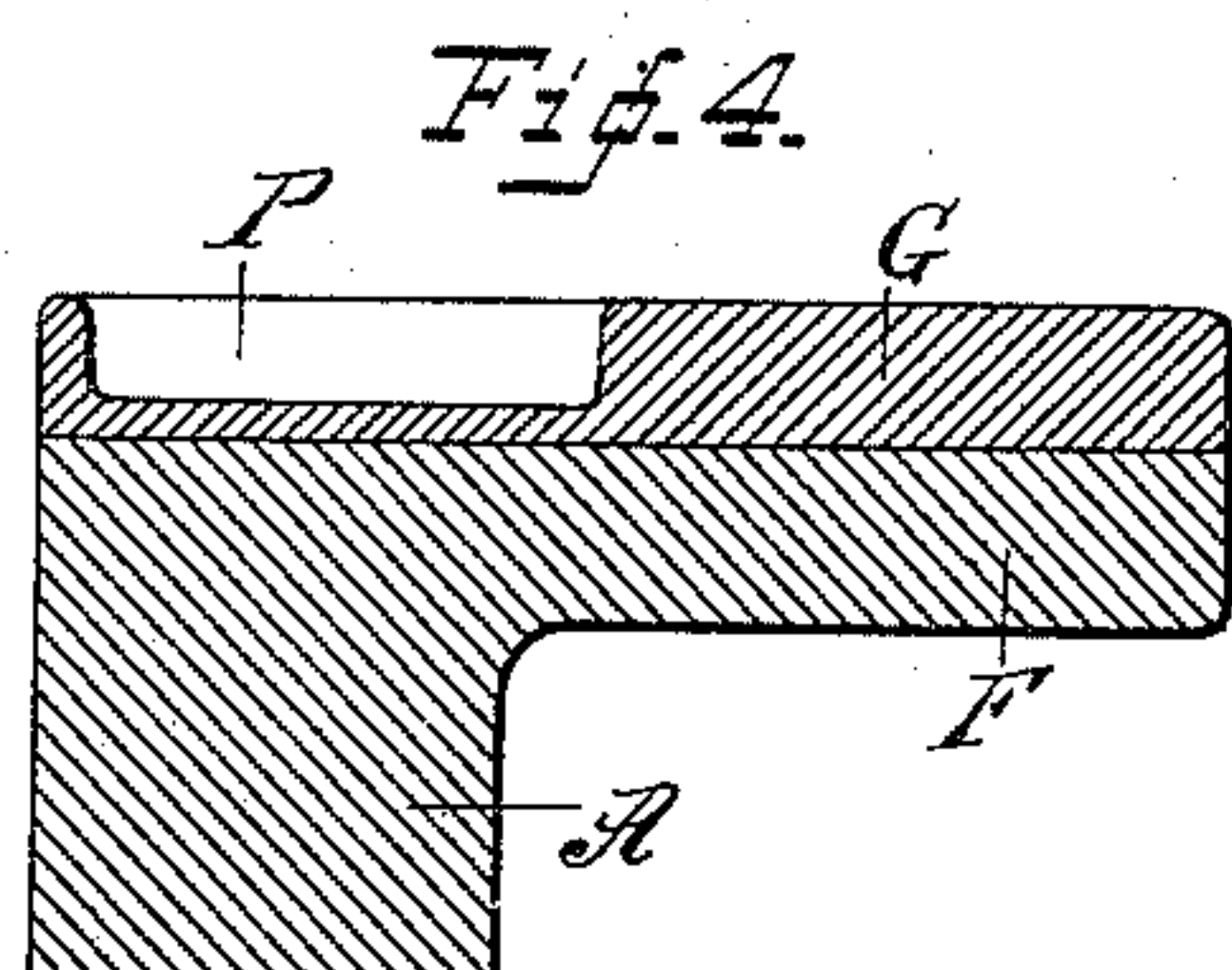
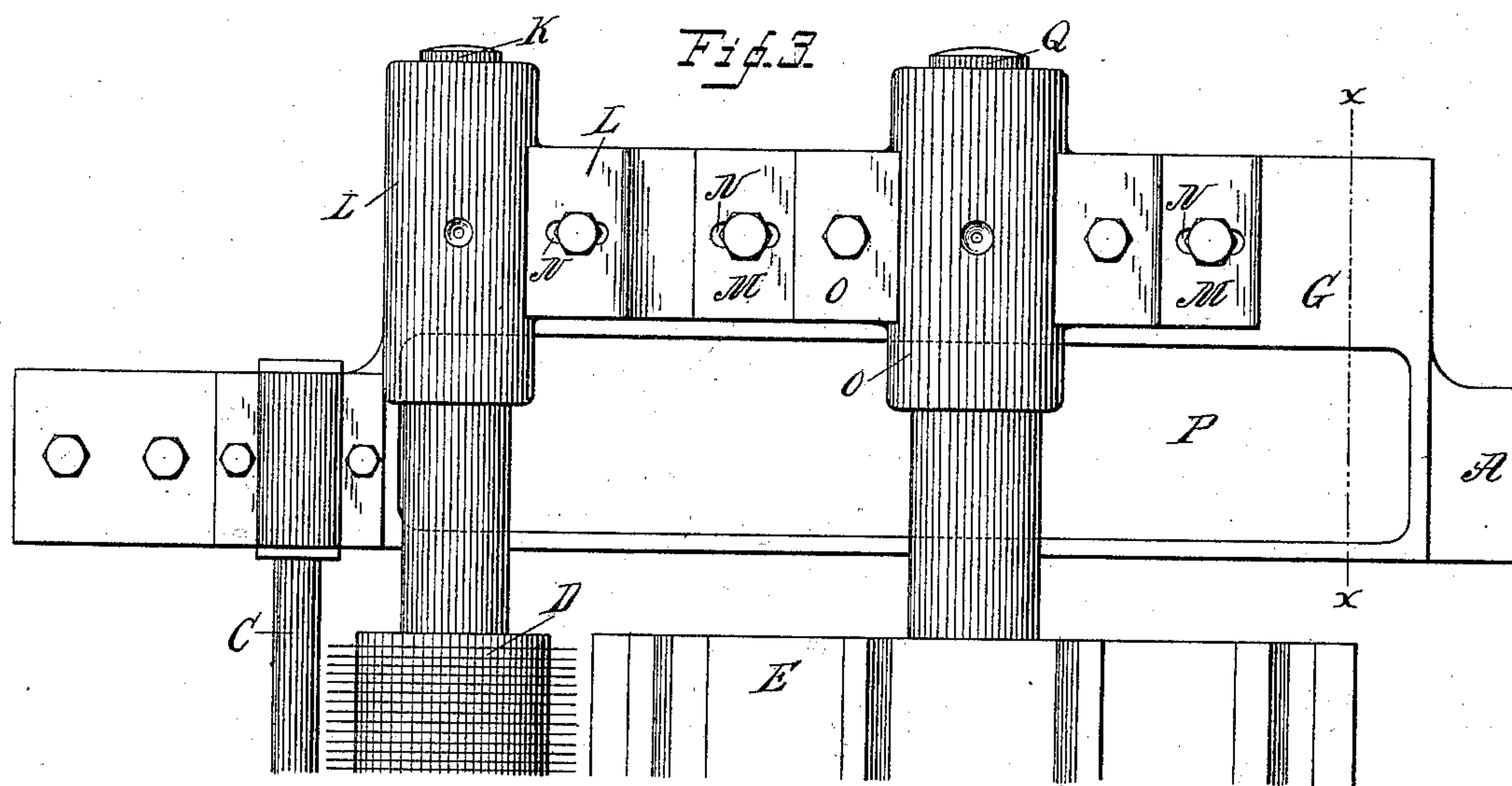
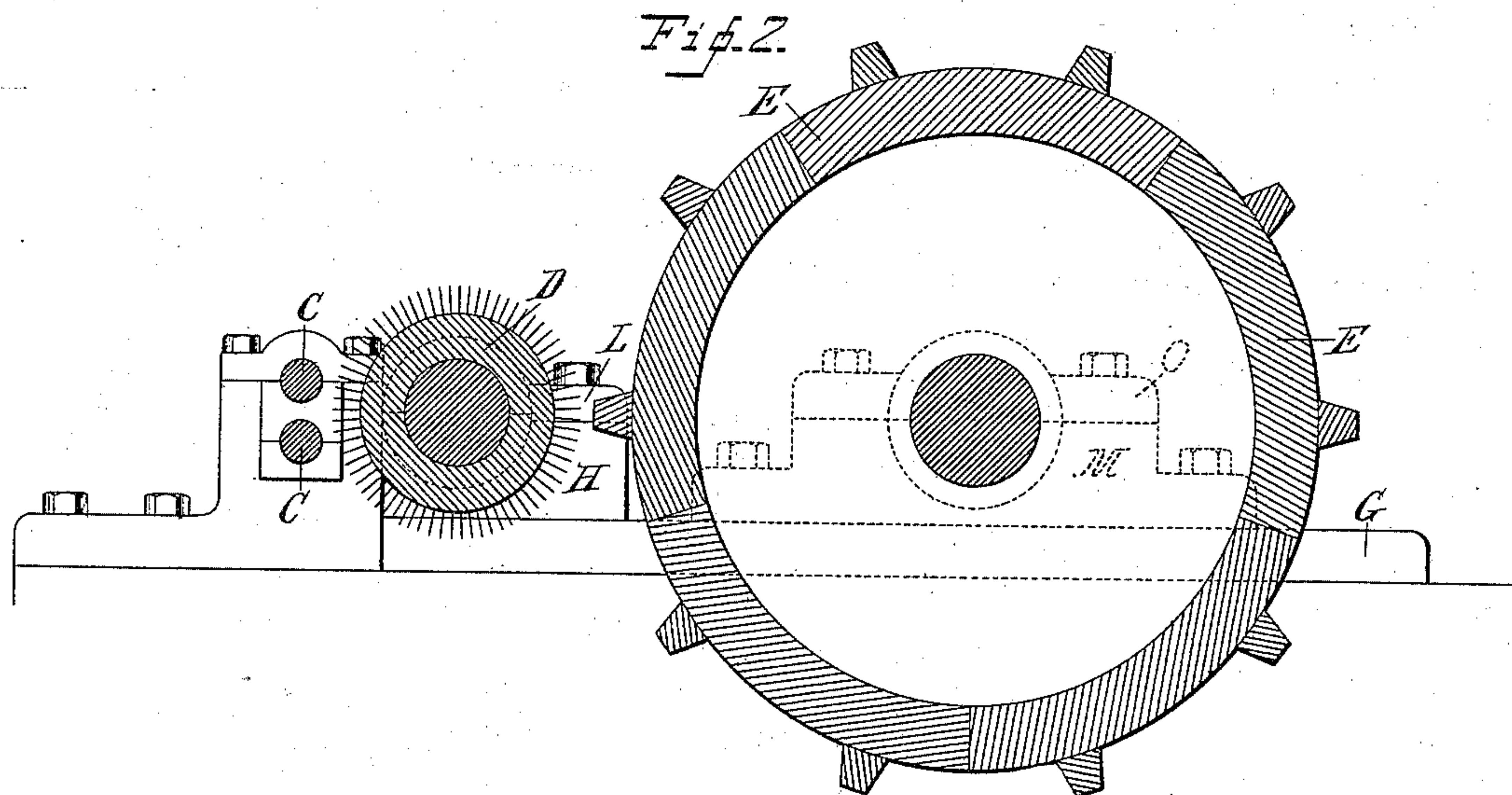
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UNITED STATES PATENT OFFICE.

RUSSELL A. BELDEN, OF DANBURY, CONNECTICUT, ASSIGNOR TO THE
R. A. BELDEN COMPANY.

BEARING FOR FUR-BLOWING MACHINES.

SPECIFICATION forming part of Letters Patent No. 331,181, dated November 24, 1885.

Application filed June 8, 1885. Serial No. 168,000. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL A. BELDEN, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Bearings for Fur-Blowing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to prevent the formation of what are known as "grease-dags" in the fur while it is being picked prior to being blown upon an endless belt or cone. Heretofore it has been a serious objection to these machines as placed upon the market that drops of oil from the bearings of the picker and the blower cylinders were constantly getting into the fur, the effect of which was to mat the fur together and produce what hatters term "grease dags or flakes." As these mats of fur are formed too late to be broken up by the picker-cylinder, or, if broken up, are reformed, owing to the stickiness of the oil, it follows that the dags or flakes are thrown upon the cone with the fur matted together with oil, instead of in the light fluffy condition which is essential to form nice bodies, thus resulting in serious loss to the manufacturer.

In order to overcome this serious defect in hat-forming machines as now constructed, I have devised the simple and novel construction and arrangement of parts which I will now describe, referring by letters to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of a portion of a hat-forming machine. Fig. 2 is a section, on an enlarged scale, through the feed-rolls and the picker and brush cylinders. Fig. 3 is a plan view of a portion of one side of the machine, fully illustrating my improved bearings; and Fig. 4 is a detail sectional view showing the drip-cup between the bearings of the picker and brush cylinders and the cylinders themselves.

Similar letters denote the same parts in all the figures.

A indicates frame-work; B, a driving-pul-

ley; C, feed-rolls; D, the picker-cylinder, and E the brush-cylinder. These are all of ordinary construction, and form no part of my invention, which relates solely to the journals and journal-bearings of those cylinders from which it is possible as they are ordinarily constructed for drops of oil to get into the fur which is being worked.

I have illustrated my invention as applied to the journals of the picker and brush cylinders, although it is obvious that it may be applied to any journals from which there is liability of oil getting into the fur.

F represents an overhanging bracket, which is cast integral with or bolted to the frame-work. This bracket extends out some distance from the frame-work on each side of the machine, for a purpose which will presently be explained.

G is a heavy plate or casting, which is bolted to the brackets.

As it is necessary that the picker and brush cylinders should both have adjustment toward or from each other, I form the journal-bearings for these cylinders in pillow-blocks which are separately bolted to plate G, the bolts passing through slots N in the blocks, so that the latter may be adjusted to any desired position.

H indicates one of the pillow-blocks for the journals of the picker-cylinder K, and L is the cap for the bearing.

M indicates one of the pillow-blocks for the journals of the brush-cylinders, and O is the cap for the bearing. Both caps are bolted to the blocks, as shown.

P is a drip-cup, which is formed in the top of plate G and occupies a space from three to six inches in width between the journal-bearings and the frame-work of the machine.

As shown in Fig. 3, the journals of the picker and brush cylinders extend out beyond the edge of the frame-work, and the bearings therefor are placed at the outer edge of the bracket, and preferably hanging over the drip-cup, as shown. By this means I render it wholly impossible for any oil to get into the stock, and thus prevent the serious loss which has heretofore resulted from grease-dags or flakes.

It will of course be understood that the jour-

nal-bearings are made alike on both sides of the machine, although for convenience in illustrating one side only has been shown.

I do not desire to limit myself to the exact construction shown, as it obvious that the details may be considerably changed without departing from the spirit of my invention.

I claim—

1. In a hat-forming machine, the combination, with the cylinder-journals, of bearings therefor supported outside the frame-work of the machine and drip-cups between said bearings and frame-work, whereby the formation of grease dags or flakes in the fur is wholly prevented.

2. The cylinders having elongated journals, in combination with bearings therefor at the outer edge of a plate, G, a drip-cup in said plate between the bearings and the frame-work of the machine, and a bracket attached to or made part of the frame-work, whereby the plate is supported.

3. The cylinders having elongated journals, in combination with plate G, having a drip-cup, movable blocks bolted to the plate, in which are the bearings for the picker and brush cylinder journals, and a bracket upon the frame-work which supports the plate and the parts carried thereby.

4. The frame-work and bracket, in combination with plate G, having a drip-cup between the bearings and the frame-work, blocks H and M, in which are the bearings and whose attaching-bolts pass through slots N, whereby said blocks are made adjustable, journals K and Q, and the caps therefor.

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

RUSSELL A. BELDEN.

Witnesses:

A. M. WOOSTER,
W. H. PORTER.