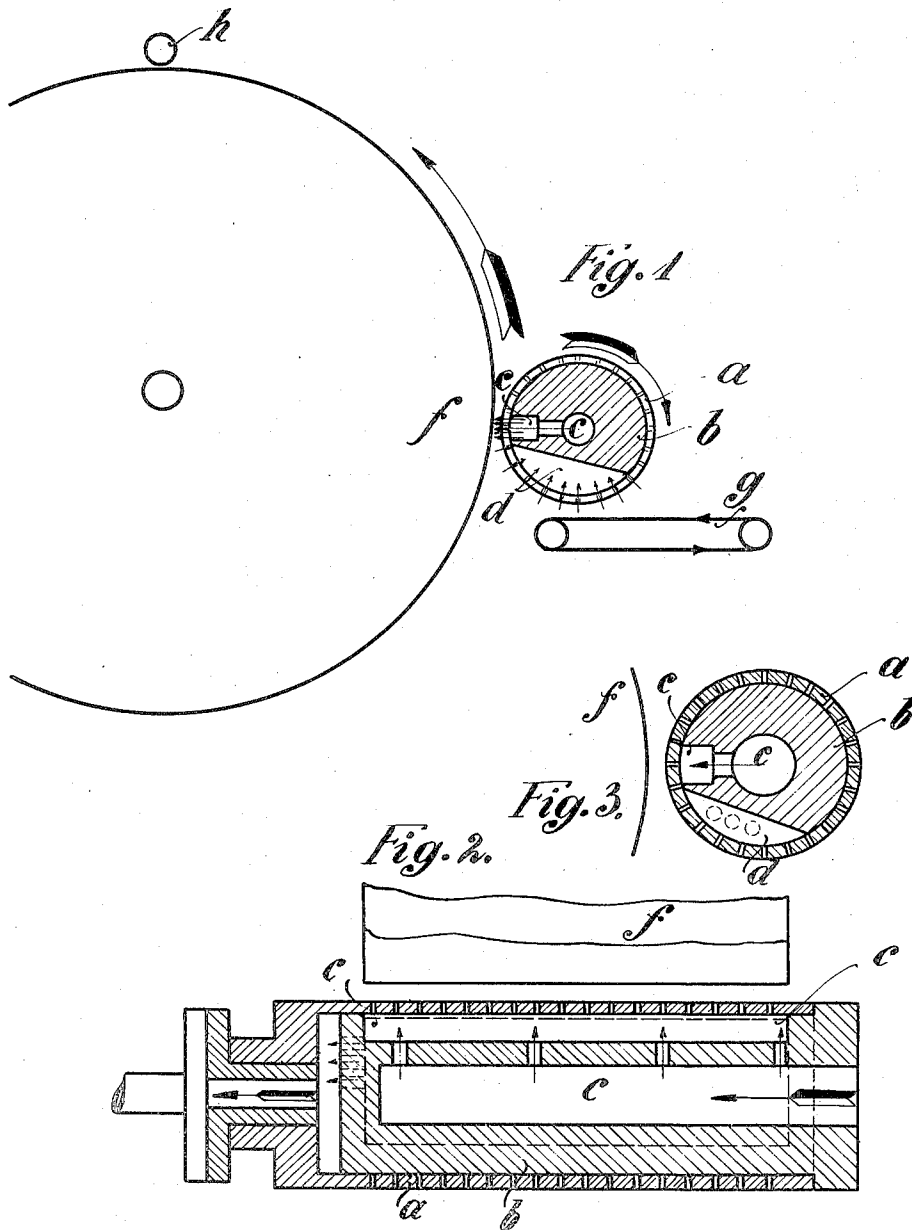


M. MEIROWSKY.
 APPARATUS FOR PREPARING MICA SHEETS.
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1,003,368.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR PREPARING MICA SHEETS.

1,003,368.

Specification of Letters Patent.

Patented Sept. 12, 1911.

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To all whom it may concern:

Be it known that I MAX MEIROWSKY, a subject of the King of Prussia, German Emperor, residing at Cologne-Lindenthal, in the Province of the Rhine, Kingdom of Prussia, German Empire, have invented certain new and useful Apparatus for Preparing Mica Sheets, of which the following is a specification.

10 This invention relates to an apparatus for preparing mica sheets.

It is already known to make mica sheets from a number of separate pieces by picking up the pieces by means of a sieve or the like operated under the action of air suction and causing the layer of mica to fall upon a surface provided with the cementing material. It has also been proposed to effect the application of the mica pieces by means of a bellows. But both these processes do not effect a uniform deposit of the mica pieces upon the surface provided with the cementing material.

25 According to the present invention, the absolutely uniform deposit of the mica pieces is effected by the arrangement that these pieces, although picked up by aid of aspirated air, are delivered to the place of use by means of compressed air, that is to say, are again released from the sieve or the like and are pressed upon the cementing surface by means of compressed air.

35 For the carrying out of this process, use is preferably made of a rotary hollow cylinder provided with small perforations by which the mica pieces are picked up by means of aspirated air, and are then presented to the strip or surface passed close by it and are at the proper moment again released and pressed against the side surface by means of compressed air. For this purpose there is provided in the interior of the hollow cylinder a suction and a compression air chamber.

45 Figure 1 illustrates diagrammatically the arrangement of construction of the invention, while Figs. 2 and 3 show the cylinder provided with the suction and pressure chamber separately.

The rotating perforated hollow cylinder *a*

incloses a stationary inner cylinder *b* in the periphery of which two openings *c* and *d* are made. The chamber *c* is connected to a pressure tube of the chamber *d* to an aspirating pipe. When the hollow cylinder is turned in the direction indicated by the arrows on these figures, then fresh parts of its surface are constantly presented during the rotation of the two chambers respectively under the influence of the compression and the aspiration air, whereby under the influence of the suction the particles are picked up from the transporting band and passed close to the surface moving forward over the drum *f* against which they are blown from the cylinder under the influence of the pressure chamber connected therewith. This surface has been previously covered with adhesive material by means of the roller *h* so that the particles blown against it remain adherent.

The arrangement of the two chambers in connection with the requisite suction and pressure pipes is shown in Figs. 2 and 3.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:

Apparatus for preparing mica-sheets comprising a peripherally foraminous, hollow outer cylinder, an inner cylinder about which said outer cylinder is revoluble, said inner cylinder having a longitudinal, suction air chamber within one side thereof, and a longitudinal, air pressure chamber through its central part, connection between said pressure chamber and said outer cylinder adjacent said suction chamber, means to present mica particles to the influence of said suction chamber, means for moving adherent sheets before the air pressure outlet, and means for connection with air suction and air pressure mechanism.

In testimony, whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MAX MEIROWSKY.

Witnesses:

BESSIE F. DUNLAP,
GERTRUD BONA.