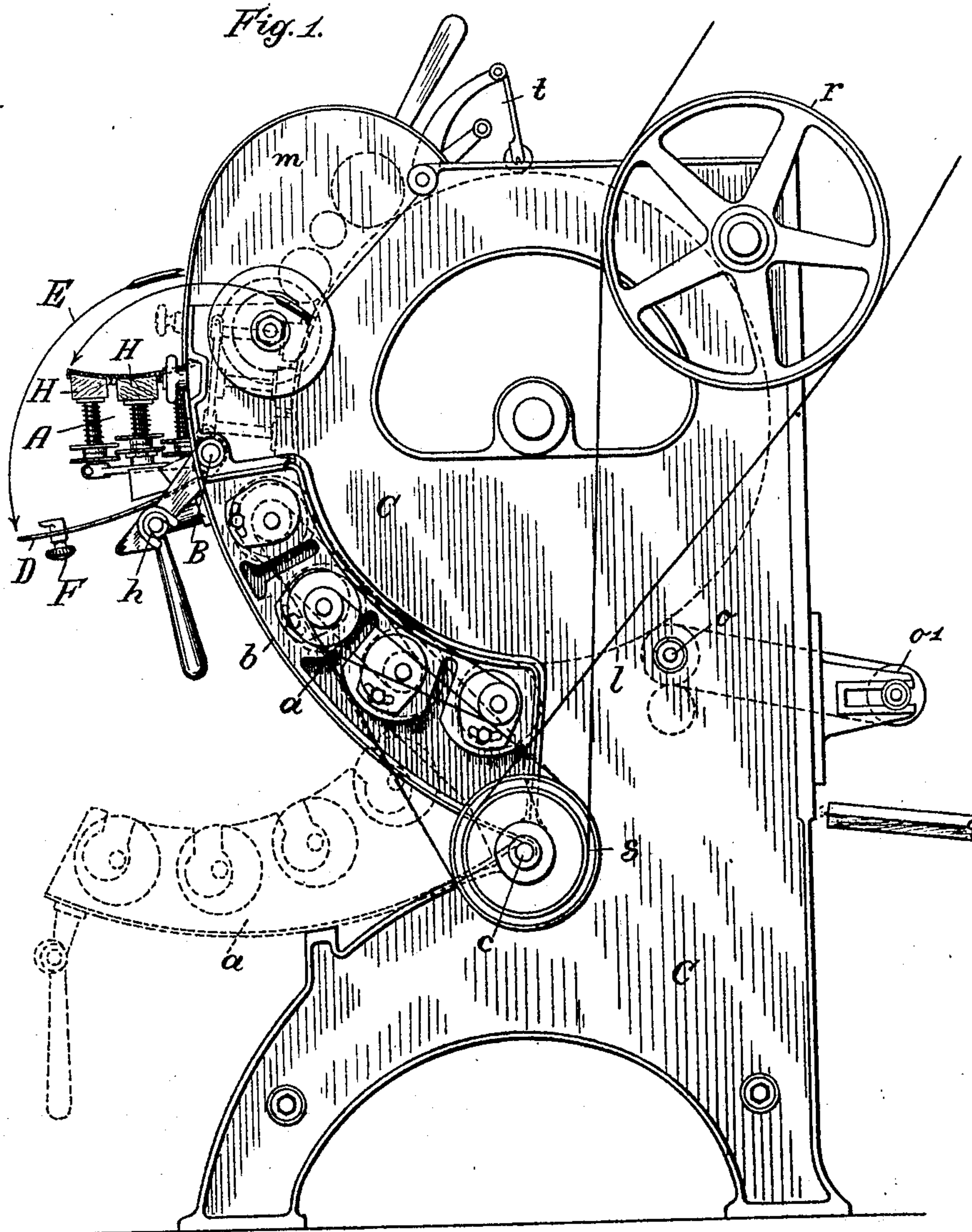


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APPLICATION FILED JAN. 8, 1907.

916,330.

Patented Mar. 23, 1909.  
2 SHEETS—SHEET 1.



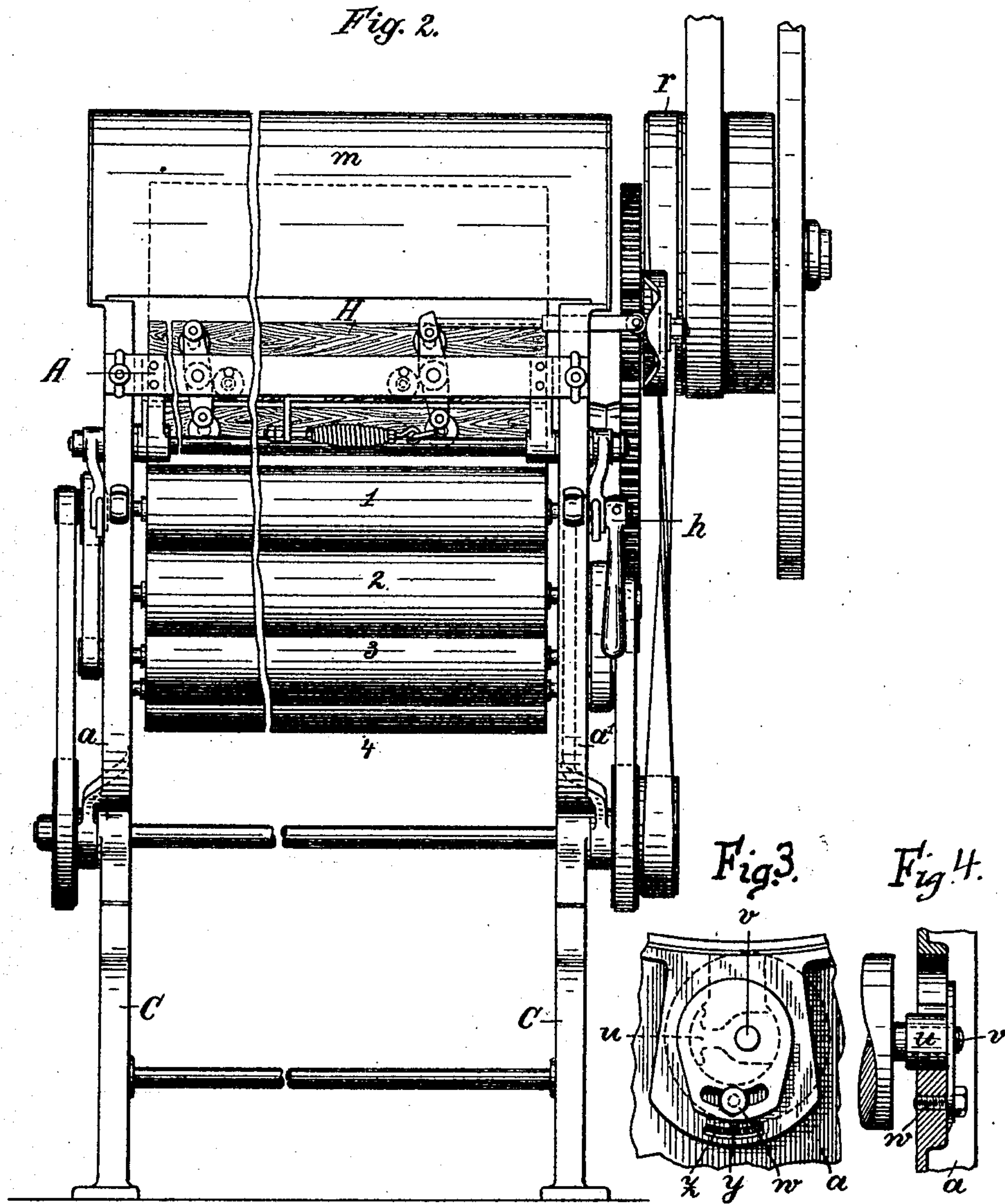
WITNESSES  
Edmond Parne  
Erich Prescher

INVENTOR  
*Hans Lamberger*

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# UNITED STATES PATENT OFFICE.

HANS LAMBERGER, OF LEIPZIG, GERMANY.

## BRONZING-MACHINE.

No. 916,330.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed January 8, 1907. Serial No. 351,326.

*To all whom it may concern:*

Be it known that I, HANS LAMBERGER, a subject of the German Emperor, and residing at 5 Bismarckstrasse, Leipzig, German Empire, have invented new and useful Improvements in and relating to Bronzing-Machines, Powder-Machines, Talcum-Machines, Rubbing-Machines, Dusting-Machines, and Similar Machines.

10 The object of my invention is to make the dusting and rubbing apparatus easily accessible. This is done by arranging said apparatus in frames which are pivotally mounted on the frame of the machine so that  
15 the dusters and rubbers can be laid open for inspection by tilting their frames.

Reference is to be had to the accompanying drawings in which:

20 Figure 1 is a frontal view and Fig. 2 a lateral view of the machine, Fig. 3 is an elevation and Fig. 4 a frontal view of a device for regulating the distance of the dusting rollers from the cylinder.

In the frame C of the machine is arranged  
25 the cylinder *l* with the bronze-box *m*, the feeding device *t* and the rollers *o o'* which throw the finished sheets out of the machine. A pulley *r* serves for actuating the working parts. The casing of the machine is tightly  
30 closed so that no powder can escape. If desirable, the powder is removed by a fan.

A is the rubbing apparatus. The rubbers H H are arranged in a frame pivotally mounted on a fulcrum B. The rubbers are  
35 actuated in a well known manner by means of a cam disk (shown on the left of Fig. 2) and provided with connecting levers and pull back springs. A cover D with a lock *f* closes the casing when the dusters are in. When  
40 they are to be cleansed or inspected the cover D is let down and the rubbing apparatus is bodily turned out. The dusting rollers 1, 2, 3, 4 are also arranged in a frame. This frame, *a*, turns on a pivot *c* to which are connected a pulley *s* for imparting rotation to it from the pulley *r* and several other pulleys, one for actuating every dusting roller. The back of the casing *a* is closed by a cover *b*. A hook *h* holds the casing in the position shown  
45 in full lines in which the rollers 1 to 4 are in contact with the cylinder *l*. When a sheet sticks in the machine or when the rollers are

to be inspected, the hook *h* is taken off and the casing *a* is let down.

It is obvious from the foregoing that by  
55 the arrangement shown both the dusting and rubbing devices can be very easily cleansed or inspected, with very little loss of time, and sheets, taken out, without any demounting of parts of the machine. 60

Figs. 3 and 4 show a device for regulating the distance between the dusting rollers 1, 2, 3, 4 and the cylinder *l*. The shafts *v* of these rollers are fitted eccentrically into bushes *u*, which are rotatably arranged in the  
65 frame *a*, so that by turning the bushes the shafts *v* with the roller they bear can be approached to or removed from, the cylinder *l*. A slotted disk is attached to the outside of every bush *u* and provided with a pointer *y*,  
70 which slides over a scale *z*, said scale being fastened on the frame *a*. A screw *w* passes through the slot in the disk *u* and through the frame *a*. The pointer *y* with the scale *z* renders it possible to adjust the bushes *u* very  
75 accurately. The screw *w* serves for holding the disk *u* in the position chosen.

What I claim and desire to secure by Letters Patent of the United States is:

1. In bronzing - machines, powder - machines, talcum-machines, rubbing-machines, dusting-machines and similar machines a frame, casings pivotally attached to said frame, and rubbing and dusting apparatus, said apparatus being arranged within said  
80 pivotally attached frames.

2. In machines of the class described a frame and a carrier pivotally attached to said frame, said carrier being adapted to receive the rubbing apparatus. 90

3. In machines of the class described a frame and a carrier pivotally attached to said frame, said carrier being adapted to receive the dusting rollers.

4. In machines of the class described a  
95 frame, a carrier for the dusting rollers pivotally attached to said frame, bushes rotatably arranged in said frame and adapted to receive the shafts of the dusting rollers, the center of the shafts being at some distance from  
100 the center of the bush.

5. In machines of the class described a frame, a carrier for the dusting rollers pivotally attached to said frame, bushes rotatably

arranged in said frame and adapted to receive the shafts of the dusting rollers, the center of the shafts being at some distance from the center of the bush, the bush being provided with a pointer and the casing with a scale under said pointer.

6. In machines of the class described a frame, a carrier for the dusting rollers pivotally attached to said frame, bushes rotatably

arranged in said frame and adapted to receive the shafts of the dusting rollers, means being provided for holding said bushes in position.

In testimony whereof I have hereunto signed my name.

HANS LAMBERGER.

Witnesses:

RUDOLPH FRICKE,  
SOUTHARD P. WARNER.