R. KRAUS.

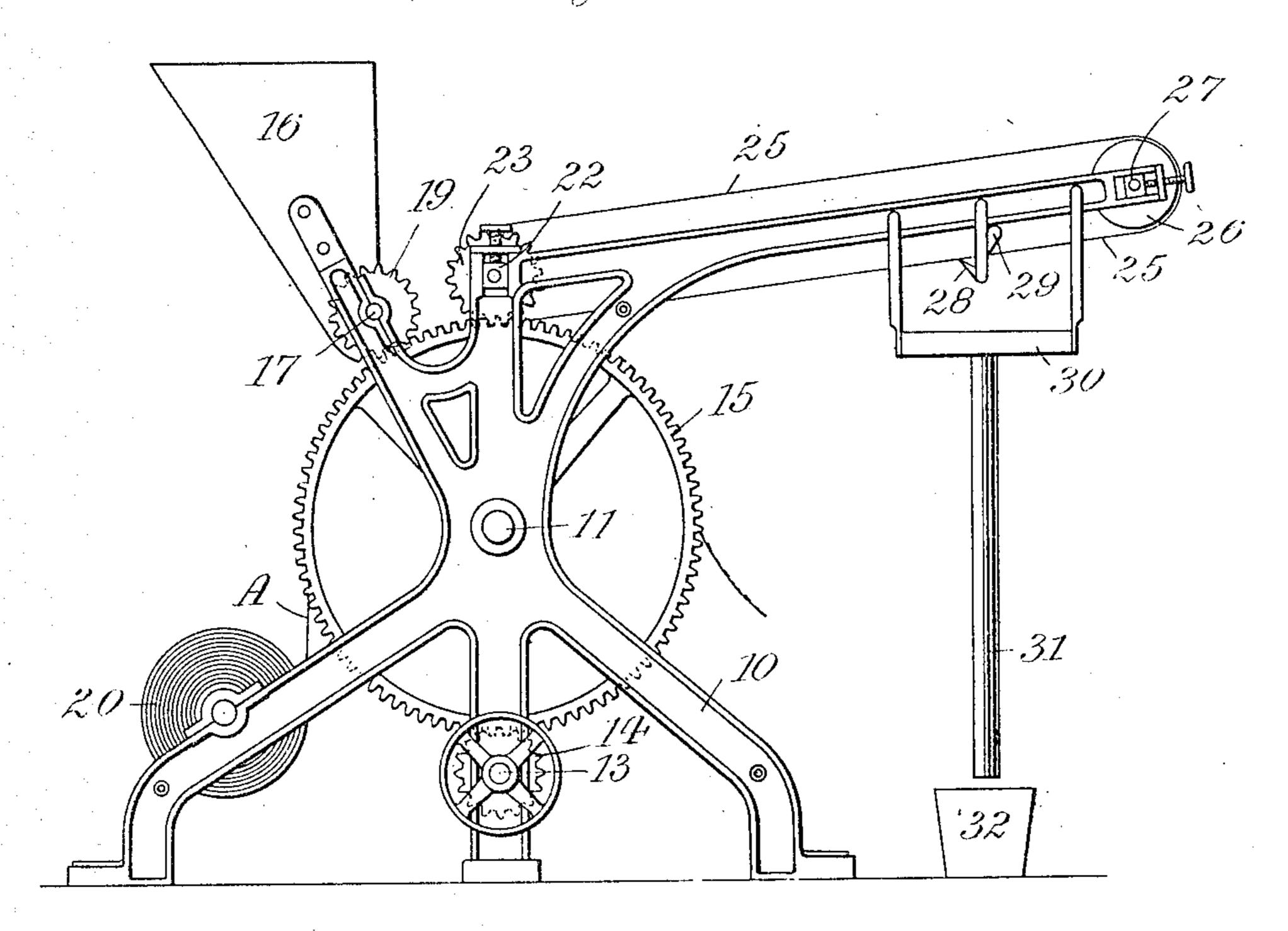
MACHINE FOR COATING WALL PAPER. APPLICATION FILED APR. 22, 1908.

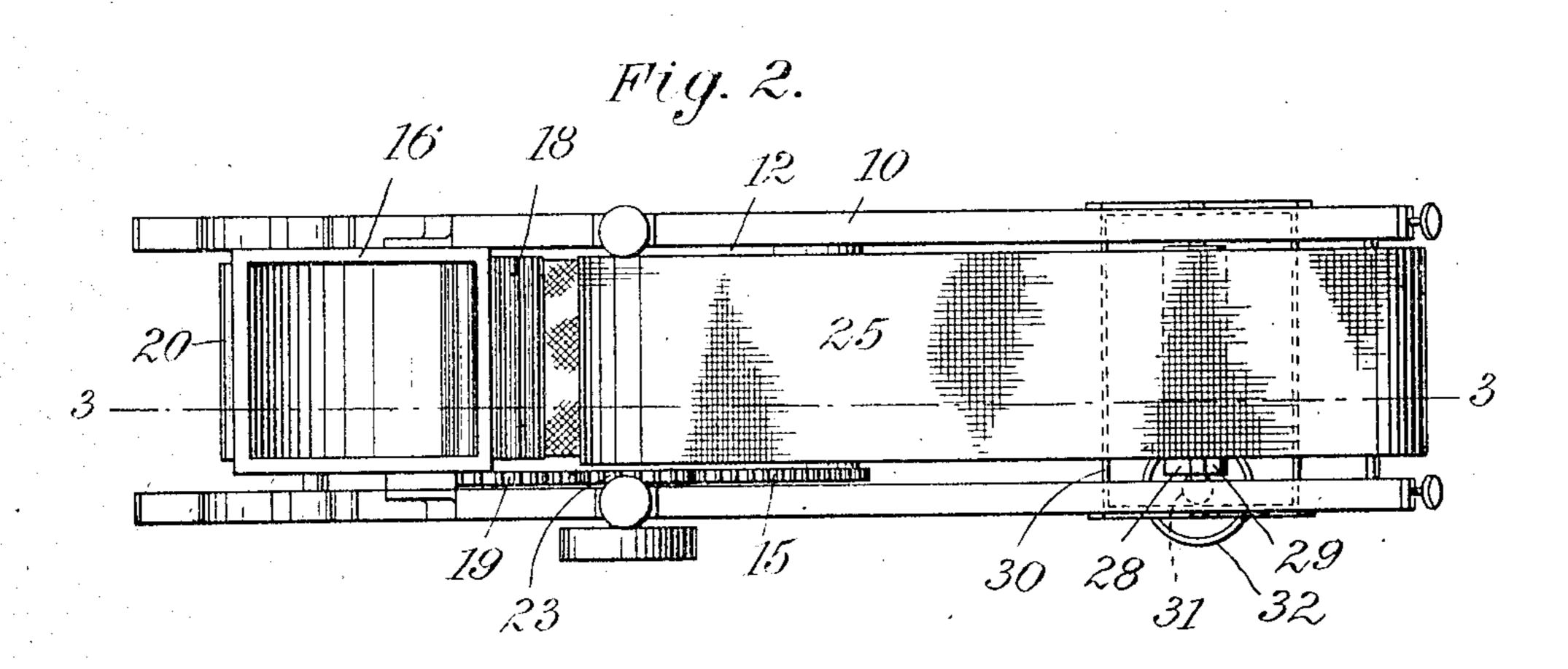
916,722.

Patented Mar. 30, 1909.

2 SHEETS-SHEET 1.

Fig. 1.





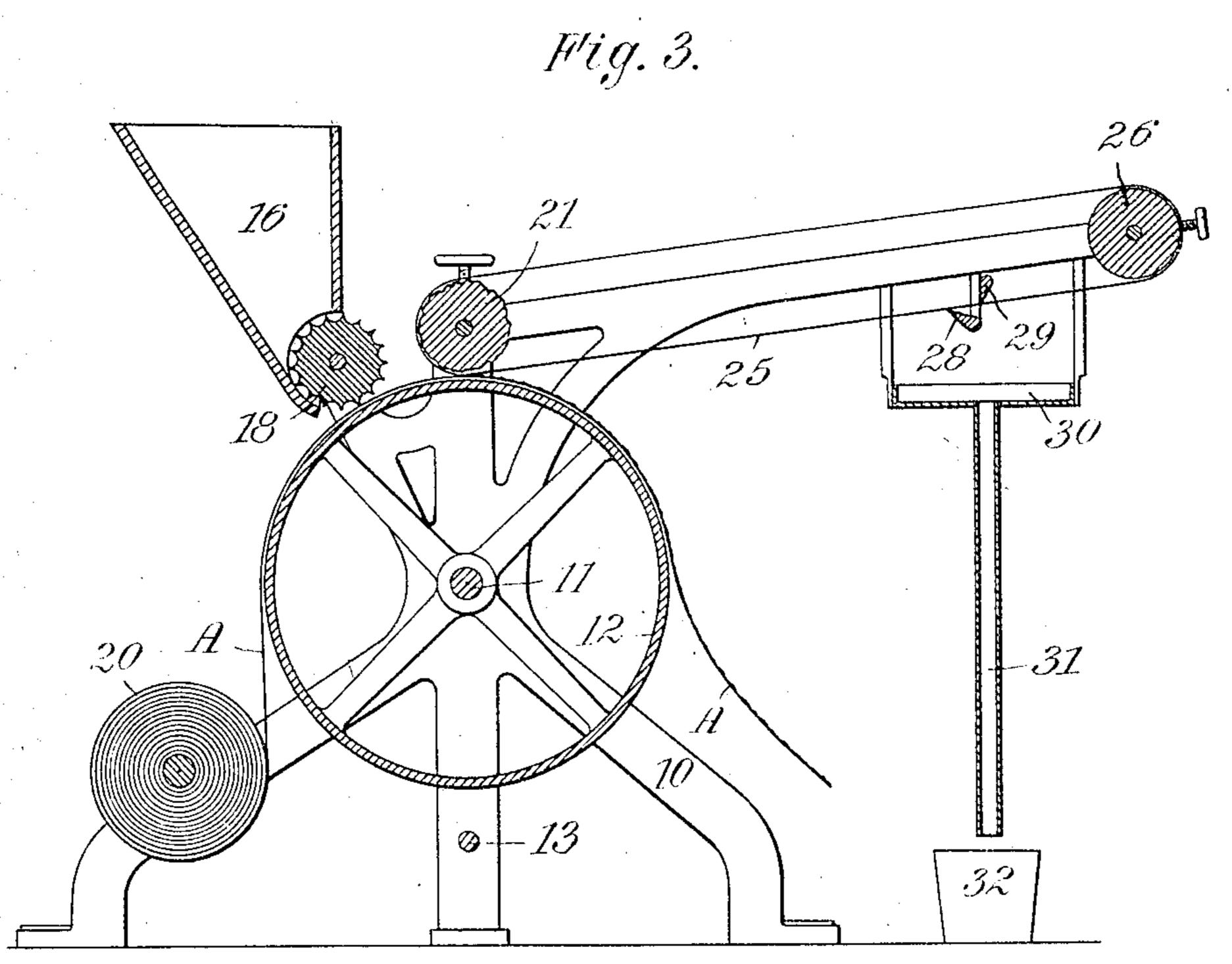
Witnesses: Arthur E. Zecups. U.R. Schulz.

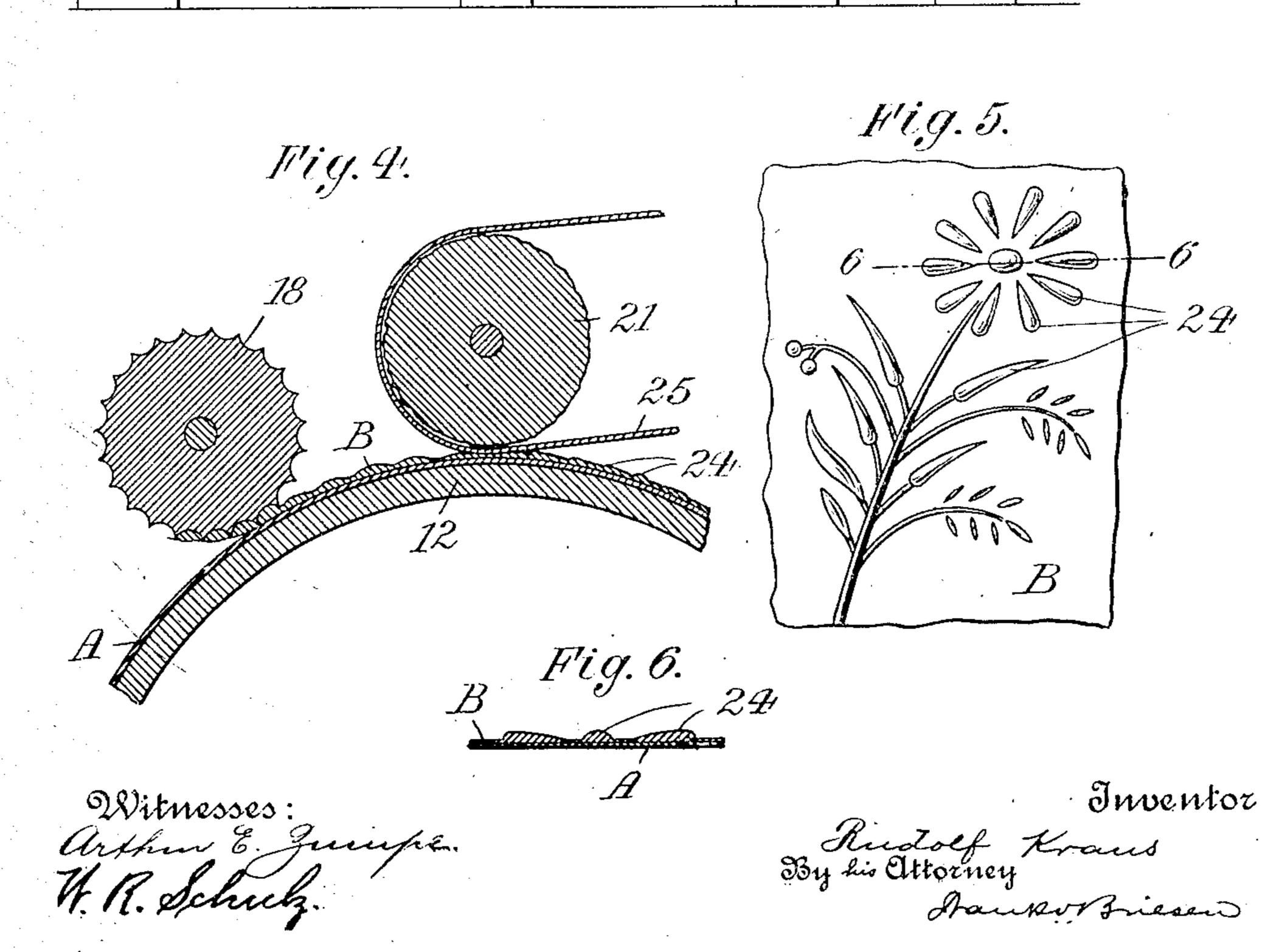
Anventor Rudoef Kraus Døy his Attorney Arauker Briesen

R. KRAUS. MACHINE FOR COATING WALL PAPER. APPLICATION FILED APR. 22, 1908.

916,722.

Patented Mar. 30, 1909. 2 SHEETS-SHEET 2.





UNITED STATES PATENT OFFICE.

RUDOLF KRAUS, OF NEW YORK, N. Y.

MACHINE FOR COATING WALL-PAPER.

No. 916,722.

Specification of Letters Patent.

Patented March 30, 1909.

Application filed April 22, 1908. Serial No. 428,480.

To all whom it may concern:

York city, Queens, county of Queens, State 5 of New York, have invented new and useful Improvements in Machines for Coating Wall-Paper, of which the following is a specification.

This invention relates to a machine of 10 novel construction for coating wall paper with a facing of pulp, and simultaneously producing an embossed pattern on said fac-

ing. In the accompanying drawings: Figure 1 15 is a side elevation of my improved machine; Fig. 2 a plan thereof; Fig. 3 a vertical section on line 3-3, Fig. 2; Fig. 4 a detail of the principal rollers; Fig. 5 a face view of a piece of wall paper coated by the machine, and

20 Fig. 6 a section on line 6-6, Fig. 5. In a frame 10 is journaled the shaft 11 of an impression cylinder 12 adapted to be rotated from power-shaft 13 by gearing 14, 15. Above cylinder 12 there is secured to frame 25 10 a hopper 16, the lower discharge end of roller and adapted to emboss a pattern upon which extends across such cylinder. This said layer, substantially as specified. hopper is adapted to contain a pulp or | magma, which, when spread upon the wall | comprising an impression cylinder adapted 30 thereon. Below hopper 16 is journaled to ! frame 10, at 17, a distributing or coating roller 18 that faces cylinder 12 and receives motion from wheel 15 by wheel 19. Roller | 3. A machine of the character described, 35 grooves which serve to convey a proper to be engaged by a web, a coating roller delivery roller 20 between cylinder 12 and roller, and a cloth between pattern roller and roller 18. Back of roller 13 there is ar- eylinder, substantially as specified. 40 ranged, above cylinder 12, a pattern roller | 4. A machine of the character described, 45 or engraved to produce any suitable pattern; roller, a cloth between pattern roller and cylinstance as the raised pattern 24 shown in stantially as specified.

Figs. 5 and 6. 50 roller 21, there is interposed between the latter and cylinder 12, the lower run of an endless cloth 25 that passes over roller 21 and also over a tension roller 26 journaled in ad-

To all whom it may concern:

Be it known that I, Rudolf Kraus, a citi- which may adhere to this cloth is removed 55 zen of the United States, residing at New | therefrom by a pair of scrapers 28, 29, that engage opposite sides thereof. The moisture and pulp gathered by the scrapers drops into a pan 30 from which it flows through pipe 31 into a bucket 32.

The paper A, delivered from reel 20, first receives its coating B, of pulp by roller 18, and then, while the pulp is still soft, a pattern is embossed thereon by roller 21. The paper thus soated and ornamented is finally 65 dried and painted or varnished. By my machine I am enabled to produce coated and embossed wall paper having a very thin facing of pulp, so that the pliability of the paper is not objectionably impaired, while, moreover, its cost of production is minimized.

l claim:

1. A machine of the character described, comprising an impression cylinder adapted to be engaged by a web, a coating roller 75 adapted to spread a plastic layer upon the web, and a pattern roller back of the coating

2. Asmachine of the character described, 80 paper, is adapted to form a plastic coating to be engaged by a web, a hopper, a corrugated coating roller intermediate hopper and cylinder, and a pattern reller back of the coating roller, substantially as specified.

18 is provided with longitudinal peripheral comprising an impression cylinder adapted quantity of pulp upon the wall paper A, to adapted to spread a plastic layer upon the be coated, said paper or web passing from web, a pattern roller back of the coating 90

21 journaled in adjustable bearings 22. comprisine an impression cylinder adapted This roller also faces cylinder 12 and receives to be engaged by a web, a coating roller 95 rotary motion therefrom by gear wheels 15 adapted to spread a plastic layer upon the and 23. The surface of roller 21 is embossed web, a pattern roller back of the coating on the coating B, of the wall paper, such for inder, and scrapers engaging said cloth, sub-

Signed by me at New York city, (Manhat-In order to prevent the pulp from clogging | tan, N. Y., this 20th day of April, 1908. RUDOLF KRAUS.

10

Witnesses: FRANK V BRIESEN, ARTHUR E. ZUMPE.