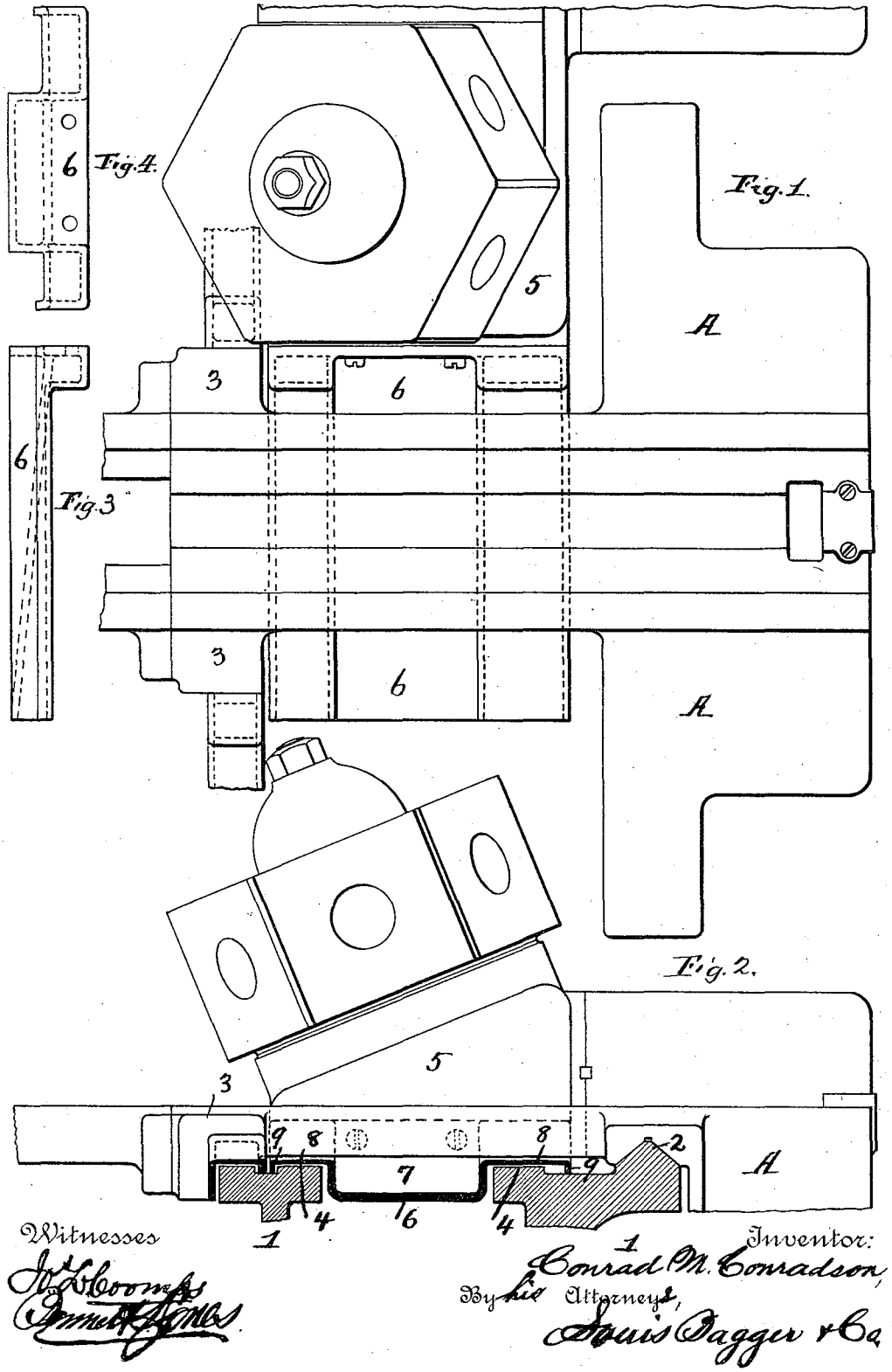
(No Model.)

C. M. CONRADSON.

DRIP PAN FOR METAL TURNING LATHES.

No. 450,481. Patented Apr. 14, 1891.



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UNITED STATES PATENT OFFICE.

CONRAD M. CONRADSON, OF MADISON, WISCONSIN.

DRIP-PAN FOR METAL-TURNING LATHES.

SPECIFICATION forming part of Letters Patent No. 450,481, dated April 14, 1891.

Application filed September 8, 1890. Serial No. 364,312. (No model.)

To all whom it may concern:

Be it known that I, CONRAD M. CONRADSON, a citizen of the United States, and a resident of Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Metal-Turning Lathes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to metal-turning lathes of that class known as "turret-lathes;" and its object is to provide simple and economical means whereby the ways or guiding-surfaces of the bed are protected and the wear and abrasion resulting from the cuttings, which would otherwise fall thereon from the tools, is avoided.

The invention is designed for that class of turret-lathes in which the turret-base slides directly on the ways of the lathe, and which are in consequence exposed to the cuttings in the ordinary construction.

The invention consists, essentially, of a cover secured to the front of the turret-slide and projecting outwardly therefrom, whereby the oil and cuttings from the tool will fall upon the cover and the ways be protected, said cover being inclined from end to end, so as to permit said cuttings and oil to fall off, as will be hereinafter more fully set forth, and definitely pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of the turret and carriage of a lathe constructed in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a side view of the cover, and Fig. 4 is an end view of the same.

In the said drawings, the reference-numeral 1 designates the bed, provided with a V-shaped way 2, which, in connection with the flat rear side 3, forms the supports for the carriage A. The inner sides of the bed are provided with upwardly-projecting ways 4 4, upon which the turret-slide 5 is supported and guided. This turret-slide and also the other parts of the lathe may be of any ordinary or suitable construction.

The numeral 6 designates the projecting cover consisting of a metal plate having a central depression 7, horizontal outwardly-projecting wings 8, and downwardly-depending flanges 9. The wings and flanges fit and work upon the elevated ways 4 4, as clearly seen in Fig. 2. This cover 6 is bolted or otherwise secured to the turret-slide in such manner as to project in advance thereof, and is preferably somewhat longer than the tools held in the turret. Sufficient space is left between the carriage and bed to allow said cover to slide beneath the carriage, thus allowing the turret to be brought close thereto. The bottom of the cover 6 is inclined, as shown by the dotted lines, Fig. 3, so as to allow the cuttings and oil to run off from the front end.

From the above it will be seen that while the latter is in operation the cover will move with and in advance of the turret-slide, to which it is connected, and the oil and cuttings from the tool will fall upon and run off the inclined bottom of said cover, thus protecting the ways and avoiding wear and abrasion thereof.

Having thus described my invention, what I claim is—

1. In a lathe, the combination, with the bed and the turret-slide, of a protecting-cover secured to said slide and projecting in front thereof, substantially as described.

2. In a lathe, the combination, with the bed having elevated ways and the turret-slide, of a protecting-cover secured to said slide and projecting in front thereof, substantially as described.

3. In a lathe, the combination, with the bed and the turret-slide, of a protecting-cover having re-entrant angles on each side of the top secured to and projecting in front of said slide, substantially as described.

4. In a lathe, the combination, with turret-slide having a protecting-cover and the carriage, of the bed having ways for the turret-slide and ways for the carriage, the ways for the carriage projecting above the turret-slide-

ways, whereby a space is formed beneath said carriage to receive the cover, substantially as described.

5. In a lathe, the combination, with the bed and the turret-slide, of the protecting-cover consisting of a metallic plate having a depressed central portion with an inclined bottom, horizontal outwardly-extending wings, and depending flanges, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

CONRAD M. CONRADSON.

Witnesses:
W. R. BAGLEY,
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