

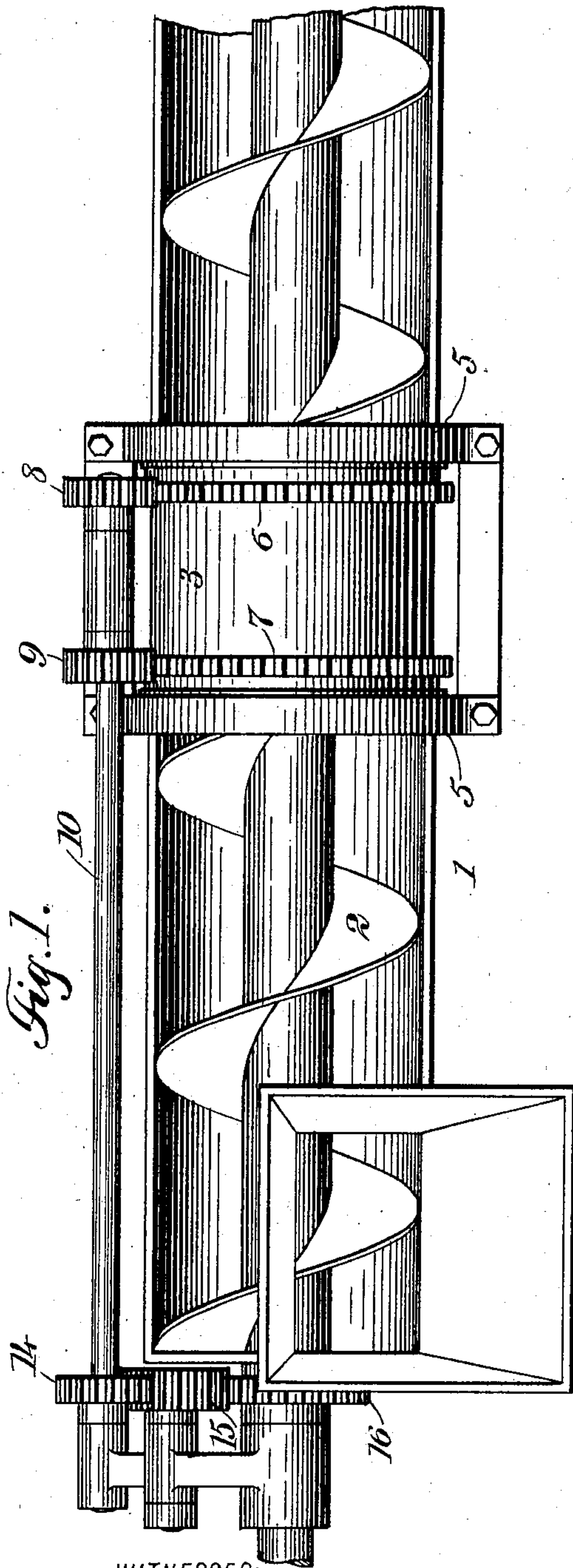
No. 751,340.

PATENTED FEB. 2, 1904.

W. L. RAHT.
ORE SAMPLING MACHINE.
APPLICATION FILED MAY 29, 1903.

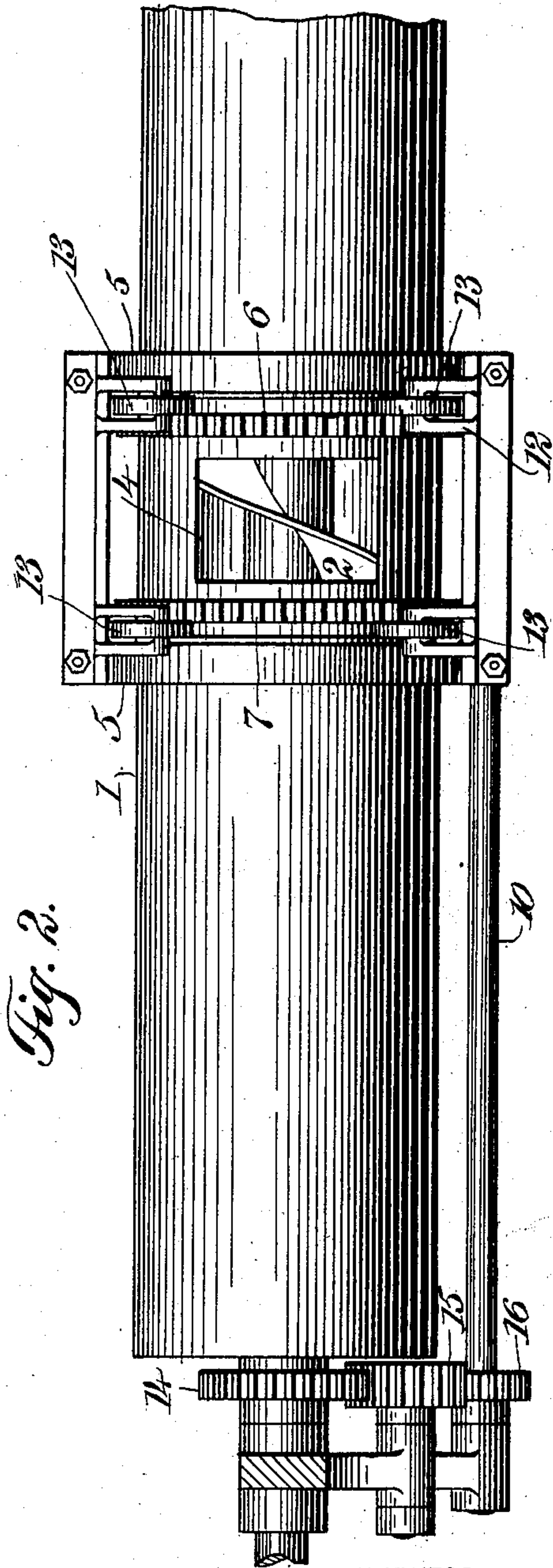
NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

A. B. Mattingly
C. R. Ferguson



INVENTOR

William L. Raht

BY

Mumford
ATTORNEYS.

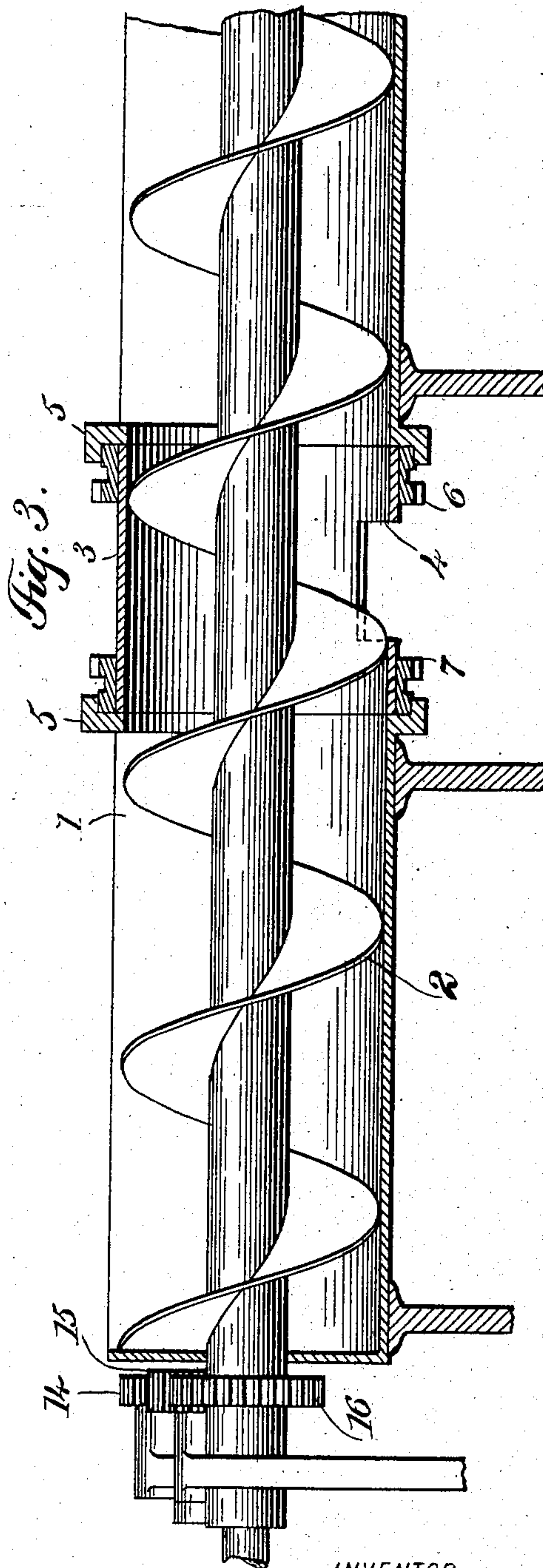
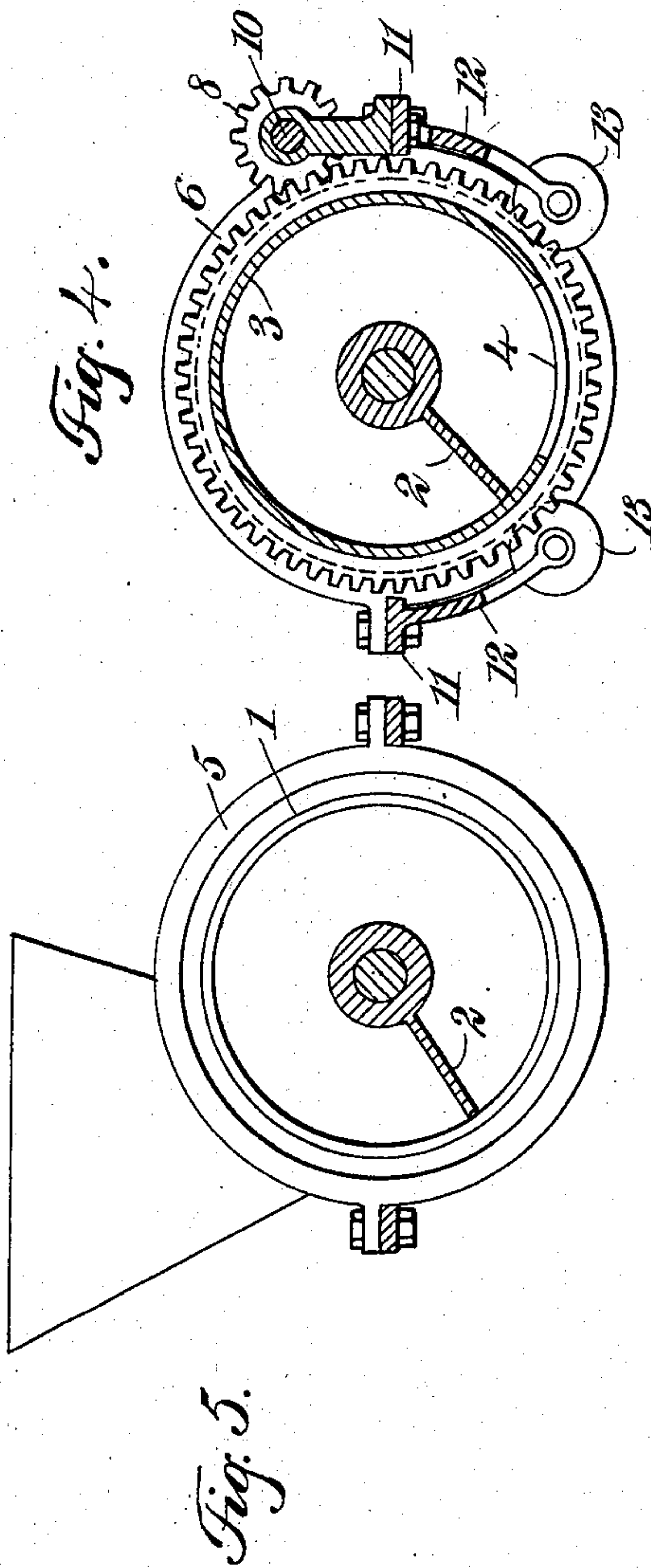
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Abraham Attingly
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INVENTOR

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UNITED STATES PATENT OFFICE.

WILLIAM LOUIS RAHT, OF SALT LAKE CITY, UTAH.

ORE-SAMPLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 751,340, dated February 2, 1904.

Application filed May 29, 1903. Serial No. 159,285. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LOUIS RAHT, a citizen of the United States, and a resident of Salt Lake City, in the county of Salt Lake and State of Utah, have invented a new and Improved Ore-Sampling Machine, of which the following is a full, clear, and exact description.

This invention relates to improvements in means for causing samples of ore to be discharged at intervals from a conveyer, the object being to provide in connection with the conveyer a simple means for causing such discharges.

I will describe an ore-sampling machine embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a top view of an ore-sampling machine embodying my invention. Fig. 2 is a bottom view thereof. Fig. 3 is a longitudinal section. Fig. 4 is a cross-section, and Fig. 5 is an end view with a portion of the conveyer-chute removed.

Referring to the drawings, 1 designates the conveyer-chute, in which a worm or screw conveyer 2 operates. Between its ends the conveyer-chute has a rotary section 3, provided with an opening 4, through which samples of ore may fall when said section is in a certain position. The ends of the chute 1 adjacent to the ends of the section 3 are provided with annular flanges 5, in which said rotating section engages, and this rotating section is provided with teeth 6 7, with which pinions 8 9 on a shaft 10 engage. Attached to lugs 11 on the flanges 5 are arms 12, in which rollers 13 are mounted, these rollers being designed as supports for the rotary portion, as they engage with the under side thereof. Rotary motion is imparted to the shaft

10 from a gear-wheel 16 on the shaft of the conveyer-screw 2, engaging with a gear 15, which meshes with a pinion 14 on the shaft 10.

By means of the intermediate gear 15 it is obvious that the part 3 will be caused to rotate in an opposite direction to the rotation of the screw 2.

In the operation as the ore is carried through the chute the part 3 will be slowly rotated, and when the opening 4 reaches the lowermost position samples of ore will be discharged therethrough.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In an ore-sampling machine, a rotary chute member having an opening between its ends, and means for causing the discharge of material through said opening at intervals.

2. In an ore-sampling machine, a conveyer-chute, a rotary section in said chute having an opening, and means for causing the rotary movement of said section.

3. In an ore-sampling machine, a conveyer-chute, a worm or screw operating therein, a rotary section in said chute and having an opening, and means operated from the conveyer-worm for causing rotary movement of said section.

4. In an ore-sampling machine, a conveyer-chute, a rotary section in said chute, flanges on the ends of the fixed portions of the chute adjacent to said rotary section and engaging with said section, rollers supported by said flanges and engaging with the rotary section, a worm conveyer in the chute, and gear connections between said worm conveyer and said rotary section.

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

WILLIAM LOUIS RAHT.

Witnesses:

H. G. ROLLINS,
J. L. PERKES.