

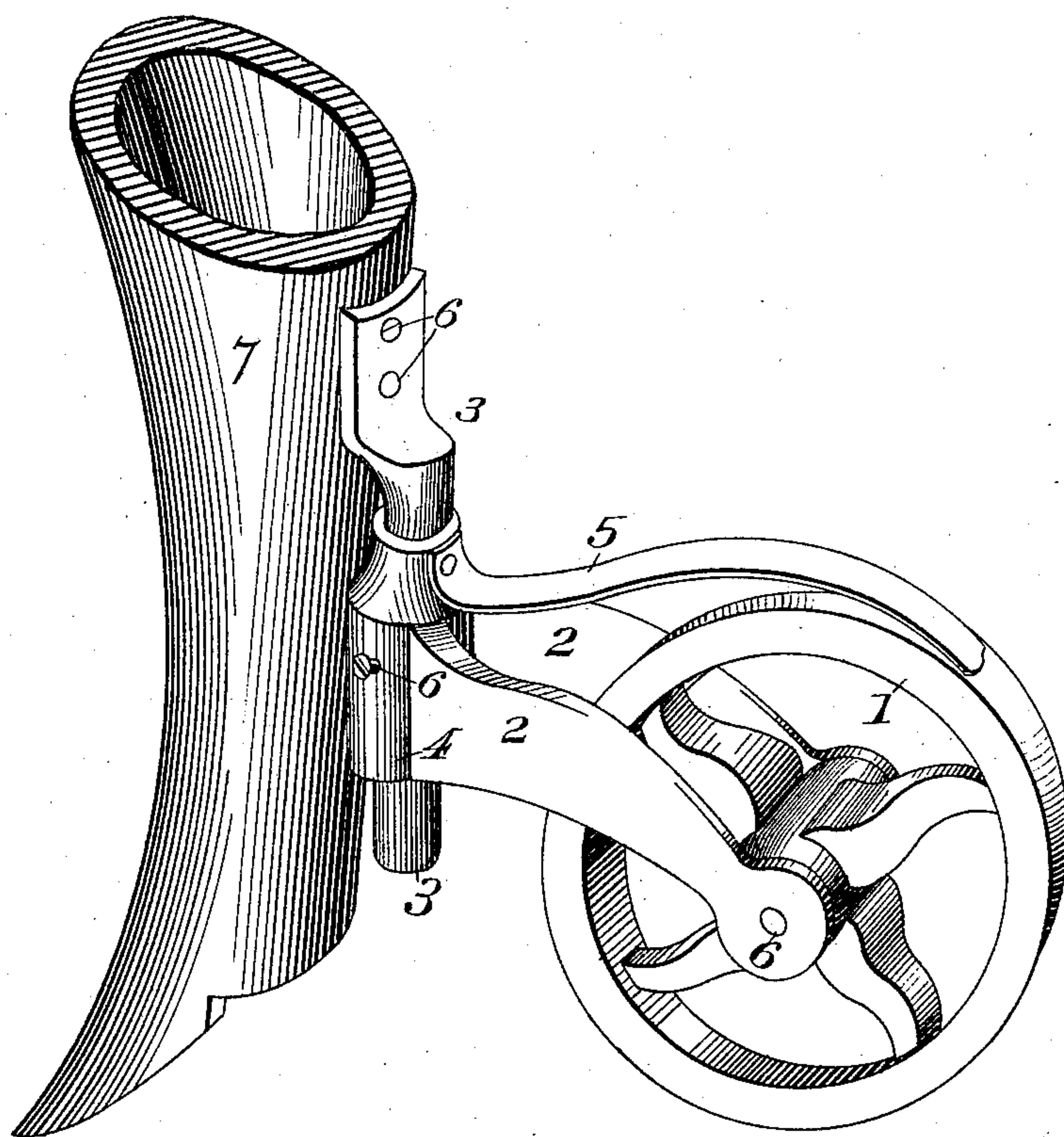
(No Model.)

J. RODENBERGER.

GRAIN DRILL.

No. 365,408.

Patented June 28, 1887.



Witnesses:
W. B. H. H. H.
Thos. J. Zeller

John. Rodenberger
Inventor:

UNITED STATES PATENT OFFICE.

JOHN RODENBERGER, OF HALLOWELL, KANSAS.

GRAIN-DRILL.

SPECIFICATION forming part of Letters Patent No. 365,408, dated June 28, 1887.

Application filed April 19, 1887. Serial No. 235,410. (No model.)

To all whom it may concern:

Be it known that I, JOHN RODENBERGER, a citizen of the United States, residing near the town of Hallowell, in Cherokee county, in the State of Kansas, have invented a new and useful Attachment for Grain-Drills, of which the following is a specification.

My invention relates to gage-wheel attachments for drill-flukes; and it consists of the devices and combination of devices hereinafter referred to and claimed.

Referring to the accompanying drawing, the figure is a side elevation.

To the fluke or boot 7 is secured a bolt, 3, the lower end of which is formed into a journal for the reception of the head 4, that has attached to it rearwardly-extending arms 2 2, which serve as a journal for the bearing 6 of

the concave gage or covering wheel 1. The head 4 has also attached to it the spring-scraper 5, that projects rearwardly, and its end rests normally on the periphery of the wheel, thereby scraping and freeing it from adhering matter. The head 4 is further provided with a set-screw, 6, whereby the gage-wheel is rendered adjustable and the depth of penetration of the fluke graduated.

I claim—

In a grain-drill attachment, the combination, with the fluke 7, of bolt 3, adjustable head 4, carrying arms 2 2, wheel 1, and scraper 5, substantially as shown and described.

JOHN RODENBERGER.

Witnesses:

W. B. GLOPER,
E. L. COLLINS.