

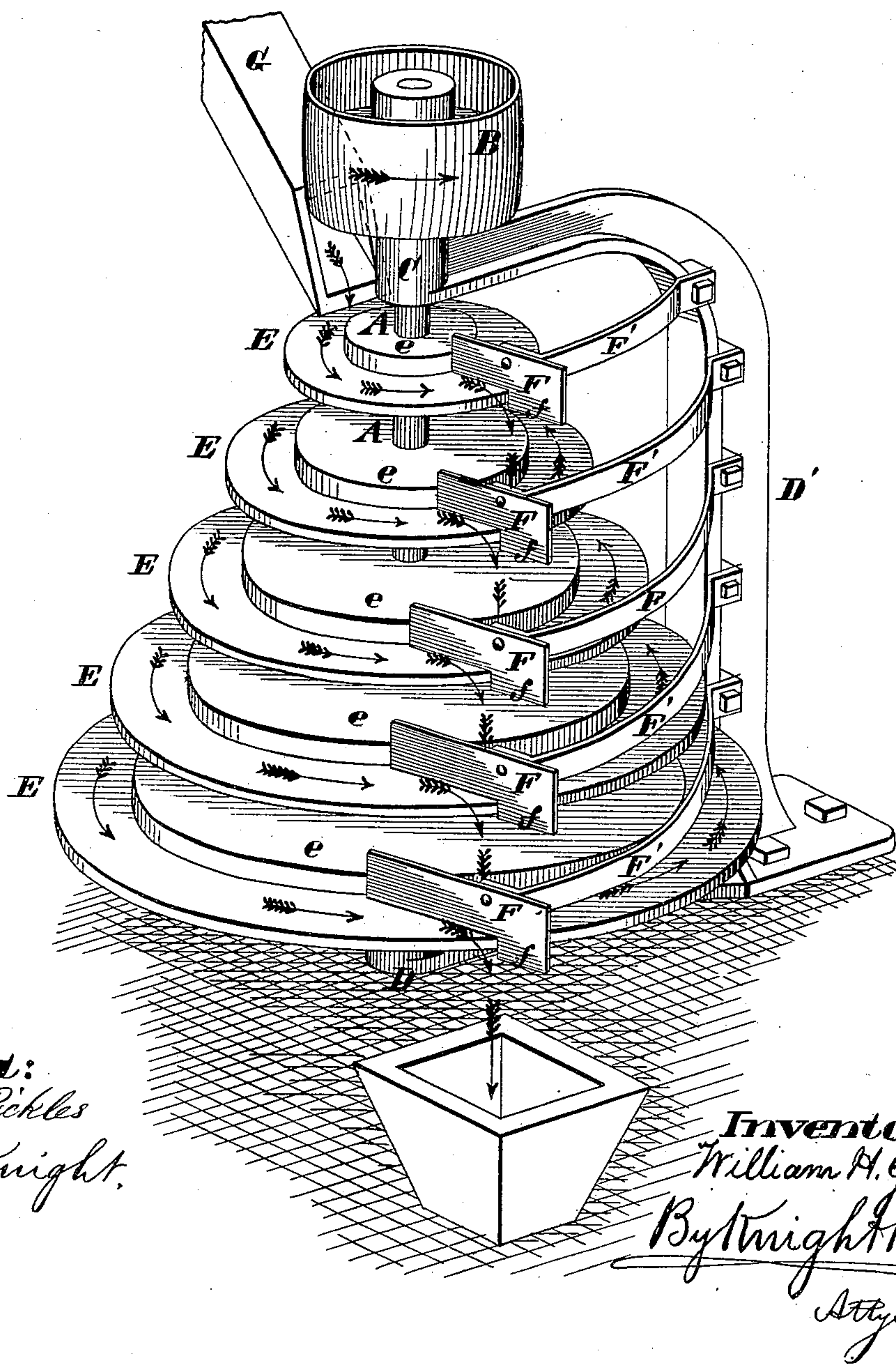
(No Model.)

W. H. GREGG.

CONVEYER AND COOLER FOR WHITE LEAD.

No. 246,761.

Patented Sept. 6, 1881.



Attest:
Charles Pickles
Geo. H. Knight.

Inventor:
William H. Gregg
By Knight Bros.
Atlys

UNITED STATES PATENT OFFICE.

WILLIAM H. GREGG, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE SOUTHERN
WHITE LEAD COMPANY, OF SAME PLACE.

CONVEYER AND COOLER FOR WHITE LEAD.

SPECIFICATION forming part of Letters Patent No. 246,761, dated September 6, 1881.

Application filed June 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. GREGG, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful
5 Improvement in Conveyers and Coolers for White Lead, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

10 My invention consists in a number of disks on a revolving shaft, in combination with an equal number of scrapers, as hereinafter fully set forth.

The drawing is a perspective view of my improvement, in which—

15 A is a vertical shaft, having a driving-pulley, B, and having suitable upper and lower bearings, as at C D.

Upon the shaft, arranged at suitable distances apart, is a number of disks, E, two or
20 more in number. I have shown five. These disks are firmly secured to the shaft by any suitable means, so that they turn with it and are not allowed to move vertically. They increase in size downward from the top, as
25 shown, and each one has preferably a shoulder, *e*, to prevent the lead from spreading inward upon their faces. The upper face of each disk is scraped by an inclined scraper, F, on
30 one end of a spring-arm, F', which is secured by its other end to the bracket D', or to any other suitable stationary object.

The operation is as follows: The shaft is made to revolve slowly by any suitable motive
35 power in the direction shown by the arrow on the pulley. As indicated by the arrows, the lead drops from a spout, G, or directly from a grinding-stone upon the upper disk outside its shoulder *e*, and is carried around by it until it reaches the scraper of that disk, and as
40 the disk continues to revolve the lead slides outward upon the inclined scraper and drops off this disk upon the one beneath, behind the scraper of this second disk, as shown by the
45 arrow, and outside its shoulder *e*. On this

disk the lead is carried around until it comes to the scraper, which removes it in the same manner as the one above, and it drops upon the next disk beneath behind its scraper, and thus it is conveyed from one disk to another until
50 it has passed over any desired number. When it is scraped off the last disk it drops into the hopper of another grinding-stone or elsewhere. When further grinding is not required it may drop directly into the keg or other receptacle
55 in which it is to be transported.

As the vertical edge of the shoulder *e* of each disk is cleaned by the inner end of the scraper, and as the edge of the disk is cleaned by means of a projection, *f*, of the scraper, it
60 will be seen that the disks are kept perfectly clean.

My device is much more effectual as a conveyer than the simple trough heretofore used, which required one man's attention to keep it
65 from clogging, as the lead will not flow freely, and my device is of great practical importance, in that it cools the lead which has become heated in the process of grinding, which is necessary before it can be barreled or packed away.
70

This device may also be used for conveying pulp-lead, lead in oil, or other lead or paste material.

Having thus described my invention, the following is what I claim as new therein and
75 desire to secure by Letters Patent:

1. As a conveyer and cooler for white lead, two or more revolving disks, differing in diameter, as described, and combined with two or more inclined scrapers, as and for the purpose set forth.
80

2. The combination of shaft A, adapted to rotate disks E, having shoulders *e*, and inclined scrapers F on spring-arms F', whose outer ends are secured to the bracket D', or its
85 equivalent, all as and for the purpose set forth.

WILLIAM H. GREGG.

Witnesses:

SAML. KNIGHT,
GEO. H. KNIGHT.