

No. 726,040.

PATENTED APR. 21, 1903.

A. FLECHTHEIM.
STREET SWEEPER.

APPLICATION FILED FEB. 28, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

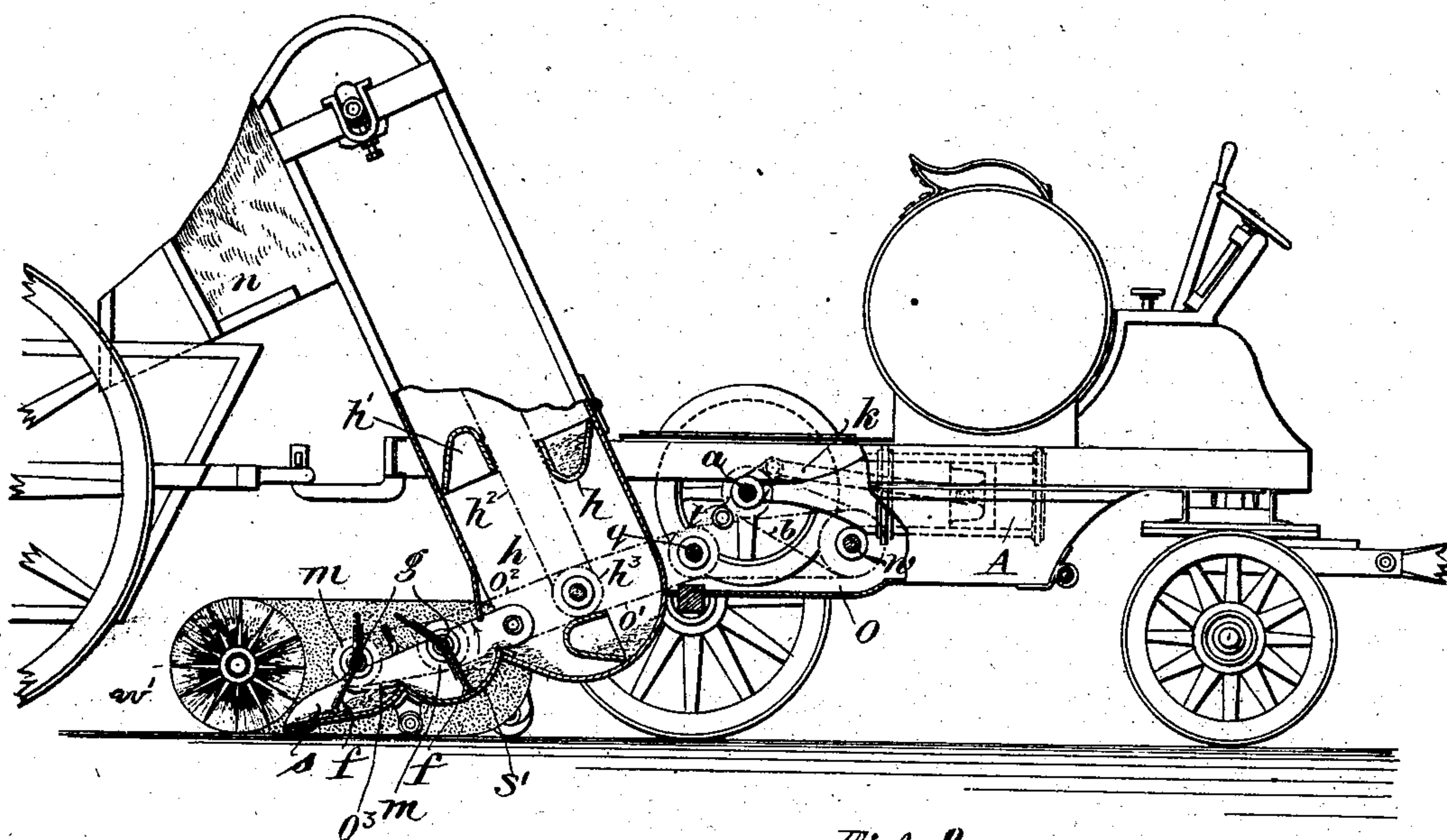
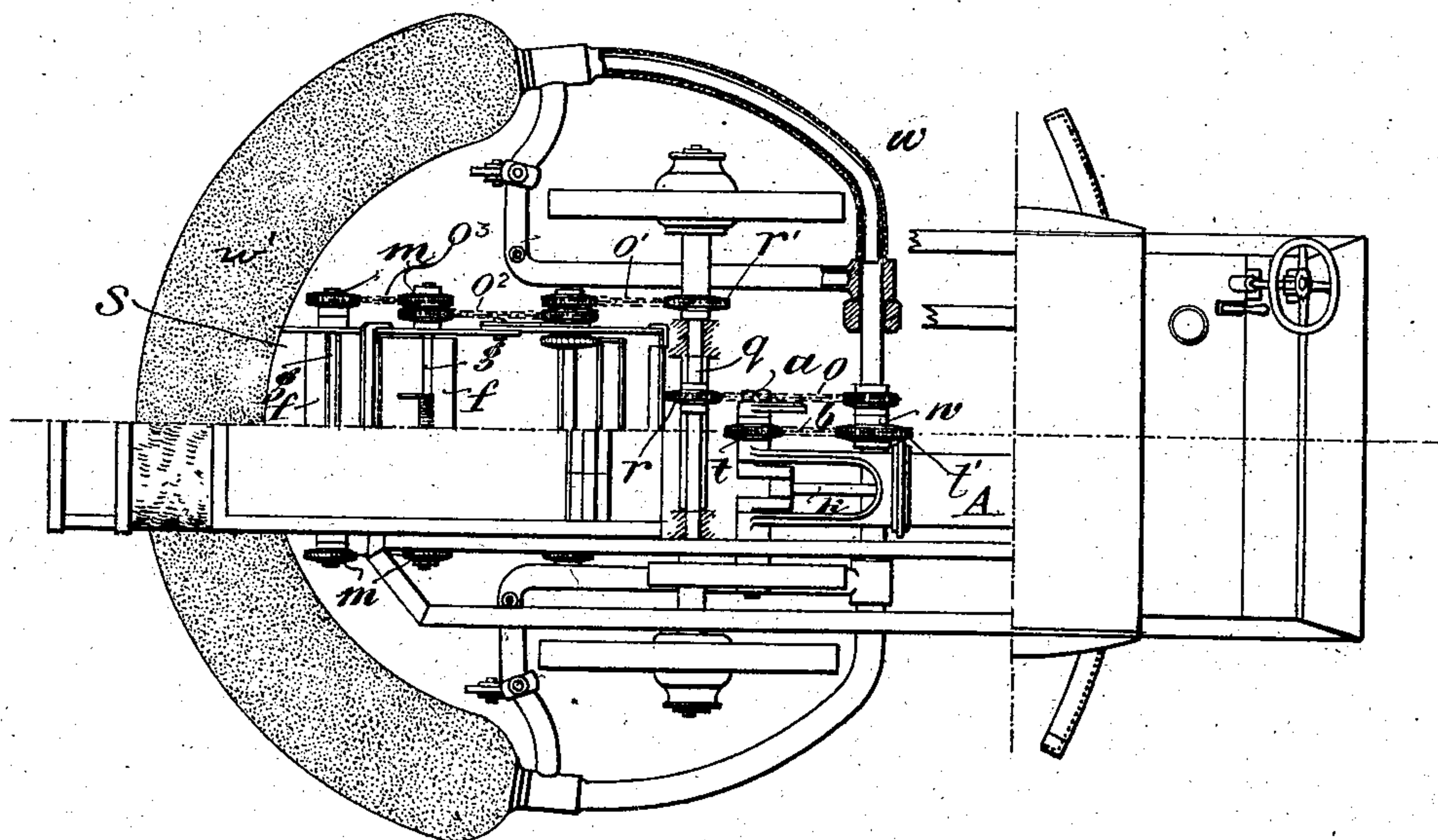


Fig. 2.



Witnesses:

William Schulz.
Edward Ray.

Inventor:
Alfred Flechtheim
by his attorneys
Roeder & Breen

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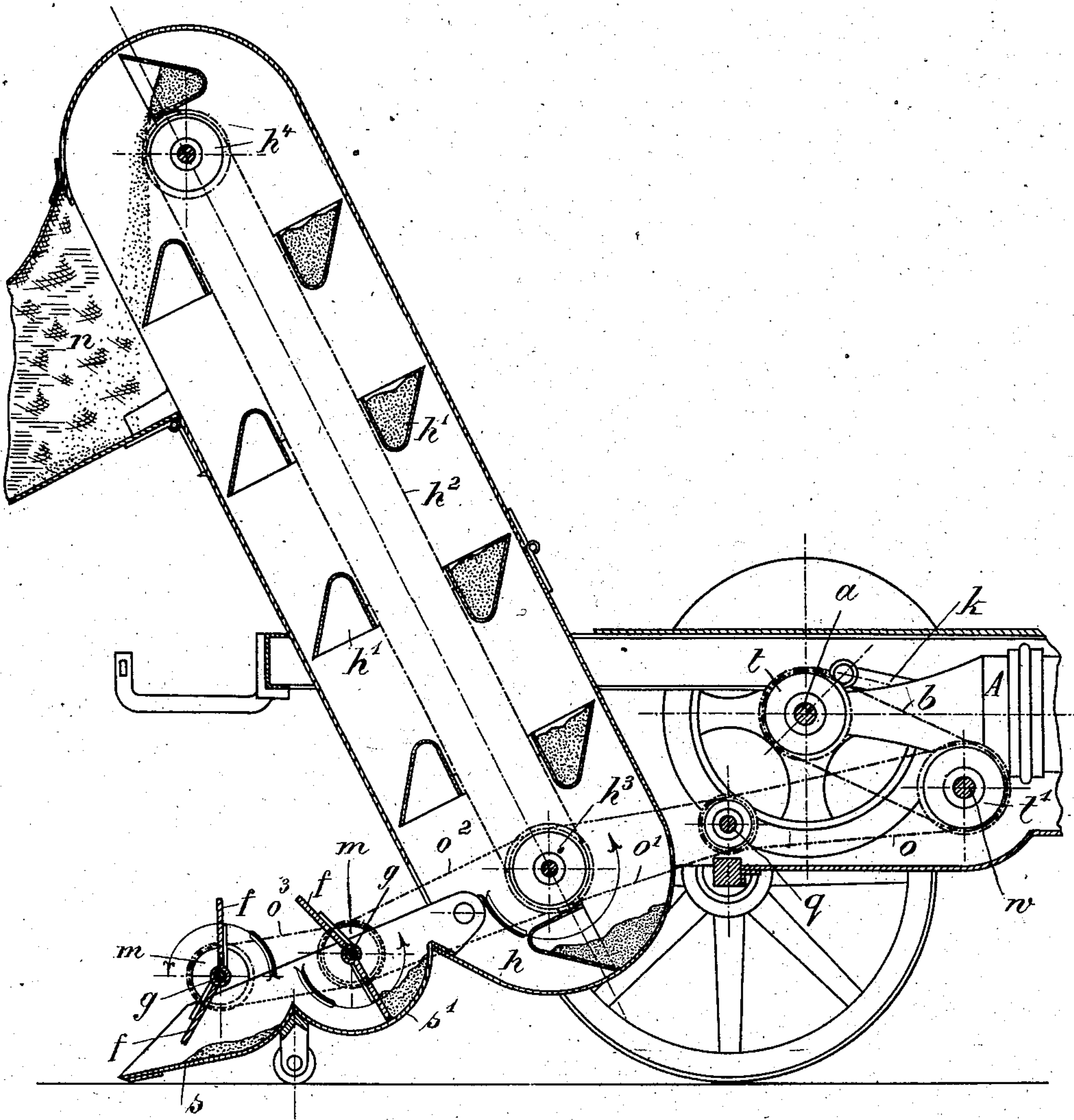
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STREET SWEEPER.

APPLICATION FILED FEB. 28, 1902.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 3.



Witnesses:
Arthur Jumps.
William Schuly.

Inventor:
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UNITED STATES PATENT OFFICE.

ALFRED FLECHTHEIM, OF DUSSELDORF, GERMANY..

STREET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 726,040, dated April 21, 1903.

Application filed February 28, 1902. Serial No. 96,037. (No model.)

To all whom it may concern:

Be it known that I, ALFRED FLECHTHEIM, a citizen of the German Empire, and a resident of Dusseldorf, Germany, have invented certain new and useful Improvements in Street-Sweepers, of which the following is a specification.

This invention relates to a street-sweeper having a curved rotating broom which sweeps the dust upon a pan, whence it is fed to a dust-car by means of a conveyer.

In the accompanying drawings, Figure 1 is a longitudinal section of my improved street-sweeper, partly broken away; Fig. 2, a plan thereof, and Fig. 3 a detail of the dust-conveyer.

My improved street-sweeper is composed of a rotating cylindrical broom w' , attached to and surrounding the curved rear section of a flexible shaft w . The latter is mounted in suitable bearings carried by the frame of the sweeper and is forwardly elongated, so as to form a ring or other similar endless curve, as shown in Fig. 2. The front section of the shaft w receives rotatory motion in any suitable manner—as, for instance, from a motor A—which rotates a crank-shaft a by means of a piston-rod k . The shaft a imparts motion to the flexible shaft w by chain b and chain-wheels t and t' , so that the curved broom receives a uniform rotatory motion.

In front of the broom at the middle of the sweeper there is arranged an inclined pan s , upon which the dust gathered at the middle of the track is swept by the broom. The pan s has a trough-shaped recess s' communicating with the casing h of a conveyer. The dust is fed forward along pan s and recess s'

and thence into casing h by means of rotatory blades or wings f , fast on shafts g , which carry chain-wheels m . The wings are flexible, so that they yield while passing over pan s and recess s' and will throw the dust forward. The conveyer is composed of a series of buckets h' , attached to an endless chain h^2 , which travels over a lower chain-wheel h^3 and an upper chain-wheel h^4 . The chain-wheels h^3 and h^4 receive motion from shaft w by chain o , sprocket-wheels r and r' , fast on shaft q , chains o^1 , o^2 , and o^3 . The dust delivered to the conveyer from pan s will be raised by the buckets h' and discharged into a chute n . From this chute the dust will drop into a dust-car, which may be coupled to the sweeper. The latter is further furnished with a sprinkler, which waters the street before being swept, to settle the dust.

What I claim is—

1. A street-sweeper provided with a curved rotatory broom having a continuous shaft to form a ring, a pan in front of the broom, a conveyer, and means for conducting the dust from the pan to the conveyer, substantially as specified.

2. A street-sweeper provided with a curved broom having a continuous shaft to form a ring, a pan, rotatory blades engaging the pan, a conveyer, and means for rotating the broom and blades, substantially as specified.

Signed by me at Dusseldorf, Germany, this 5th day of February, 1902.

ALFRED FLECHTHEIM.

Witnesses:

WILLIAM ESSENWEIN,
PETER LIEBER.