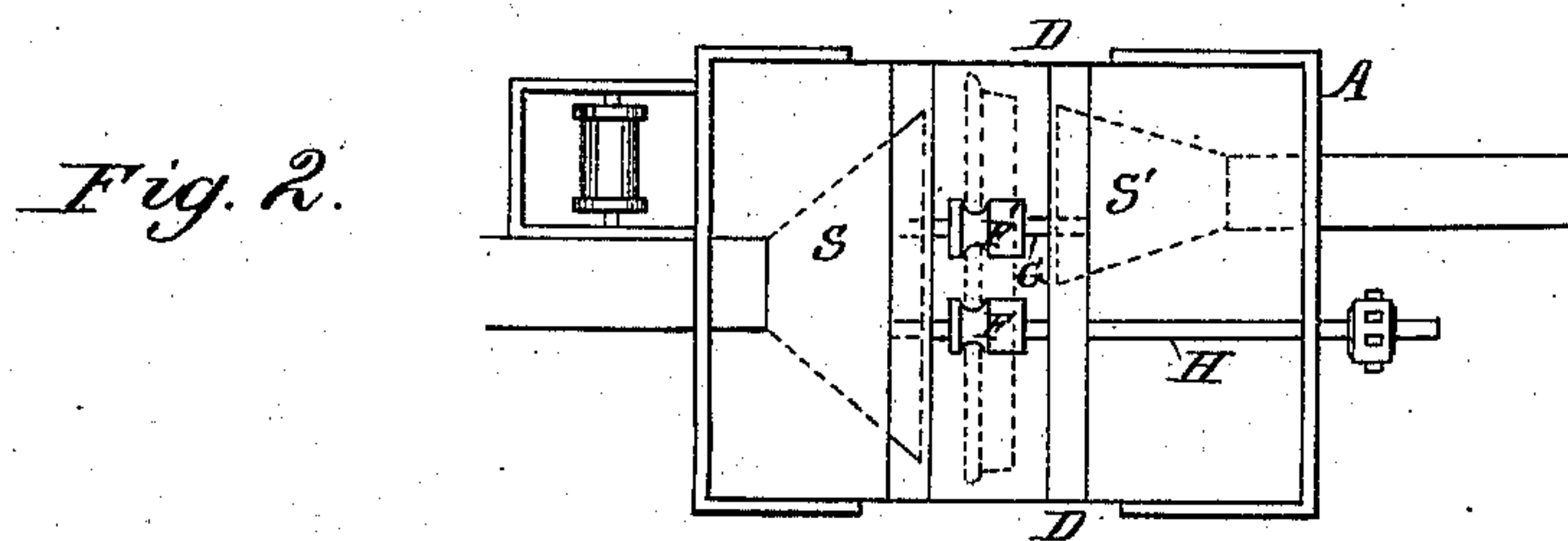
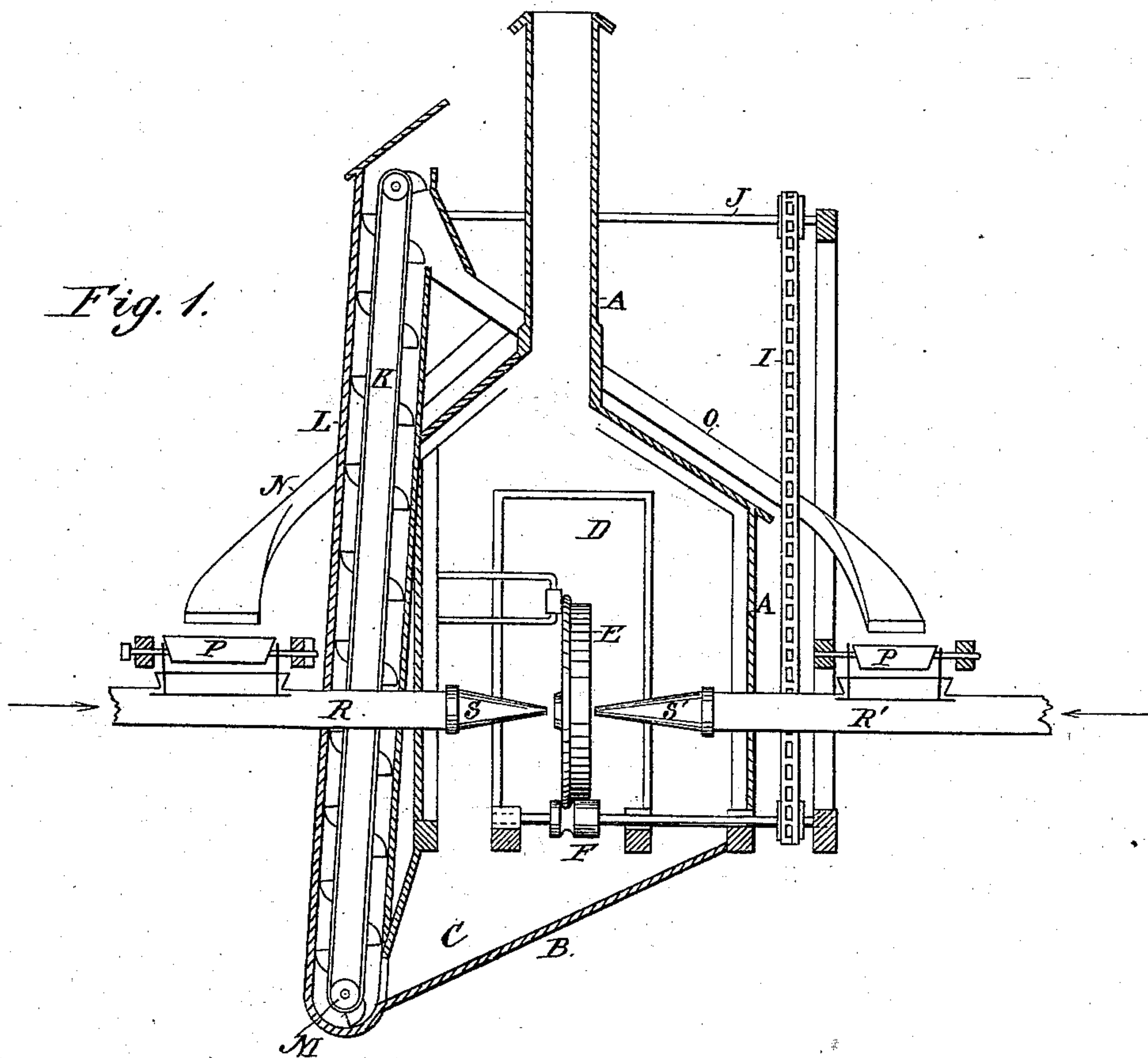


(No Model.)

P. H. GRIFFIN.
CAR WHEEL CLEANING DEVICE.

No. 270,306.

Patented Jan. 9, 1883.



Attest:
Charles J. Hunt
J. P. Forbes

Inventor.
B. Henry Griffin
By Wm. S. Wagner
Atty.

UNITED STATES PATENT OFFICE.

P. HENRY GRIFFIN, OF DETROIT, MICHIGAN.

CAR-WHEEL-CLEANING DEVICE.

SPECIFICATION forming part of Letters Patent No. 270,306, dated January 9, 1883.

Application filed November 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, P. HENRY GRIFFIN, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Devices for Cleaning Car-Wheels; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.
10

The nature of this invention relates to certain new and useful improvements in the construction of devices and apparatus for cleaning car-wheels, and is especially designed as an
15 improvement upon the Letters Patent granted to me September 13, 1881. In the above-mentioned Letters Patent the wheel was cleaned by the discharge of cinders through revolving nozzles, the wheel being stationary; and the
20 object of this invention is to construct a device for cleaning wheels by the projecting of cinders against the wheels, both sides simultaneously, if preferred, but wherein the nozzles are stationary and the wheel is caused to
25 slowly rotate, presenting every point of the surface of the wheel to the action of the cinders, as more fully hereinafter set forth.

Figure 1 is a sectional elevation of my improved device; and Fig. 2 is a plan view, showing the arrangement of devices for rotating
30 the wheel to be cleaned.

In the accompanying drawings, A represents a suitable case or housing, the bottom B of which inclines to one side, forming the well C.
35 Upon opposite sides of this case A rotate doors D, through one of which the wheel, E, to be cleaned is introduced into the case upon the curved rollers F F', the latter of which is mounted upon a short shaft, G, properly journaled in the lower portion of the case A, and
40 upon about an even plane with the floor of the compartment within which the device is situated, while the pulley F is secured upon a shaft, H, which receives motion from a belt or chain, I, leading from a pulley upon the shaft J, which is journaled above the case A, as may
45 be desired, and is journaled in suitable bearings. The opposite end of this shaft J communicates motion to the elevator K, which is
50 properly incased within the case L, the lower end of the elevator passing around the pulley

M, properly journaled at the outlet of the well C. The upper end of the elevator delivers the cinders which it takes from the well into the chutes N O, which deliver the cinders into
55 the receptacles P, which are mounted upon the blast-pipes R R', the inner ends of which project within the case A, the inner end of the former of which has secured to it broad fan-tailed nozzle S, while the latter is provided
60 with a narrow fan-tail nozzle, S'. In practice the cinders are introduced at the start into the blast-pipe R through the openings beneath the receptacles P, the wheel being placed within the case A, resting upon the pulleys F F'.
65 The pulley F, being in motion, communicates a rotary motion to the wheel. Through the connections hereinbefore mentioned, the elevator is likewise set in motion. The doors of the case A being closed, the blast from any
70 suitable fan is let onto the blast-pipes R R', through which it passes with considerable force, gradually carrying the cinders with it to project them forcibly through the nozzles S S' upon the two opposite sides or faces on the
75 wheel and through the core-openings in the wheel, the cinders falling into the well C, from whence they are elevated by the elevator and discharged into the chutes N O, the bottoms of which should be provided with a suitable
80 screen for separating the fine dust from the cinders, which latter pass through the said chutes into the receptacles P, from which they are dumped into the blast-pipes, as desired.

By the use of a device constructed substantially as described I am enabled to clean a
85 car-wheel in about one minute, and a great saving in time is had over the employment of the device heretofore patented by me, and when one wheel has been cleaned and the
90 doors are opened for its removal another wheel is immediately introduced and the operation above described repeated until the wheels to be cleaned have all been acted upon.

The position of the chutes N O may be altered, so as to discharge their contents be-
95 tween the points of the pipes S S' and the wheel to be cleaned, thus dispensing with the introduction of the cinders into the pipes R R'.

What I claim as my invention is—

1. In a device for cleaning car-wheels, and in combination with blasts provided with sta-
100

tionary fan-tailed nozzles, the pulleys F F',
mounted upon proper shafts and driven from
any convenient power for the purpose of im-
parting a rotary motion to the car-wheel, sub-
5 stantially as and for the purpose set forth.

2. In a device for cleaning car-wheels, and
in combination with the stationary nozzles S S',
of different sizes, the elevator K and chutes
O N, for the purpose of elevating and deliver-
10 ing the cinders to the blast, substantially as
specified.

3. In a device for cleaning car-wheels, and
in combination with the blast-pipes R R', pro-
vided with the nozzles S S', the curved pul-
leys F F', mounted upon proper shafts, ele- 15
vator K, chutes N O, and cases A L, when con-
structed, arranged, and operating substan-
tially as and for the purposes herein set forth.

P. HENRY GRIFFIN.

Witnesses:

E. SCULLY,
ADAM G. MUNRO.