

G. W. WALK.
MACHINE FOR CLEANING AND GREASING PANS.
APPLICATION FILED MAR. 25, 1909.

997,347.

Patented July 11, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

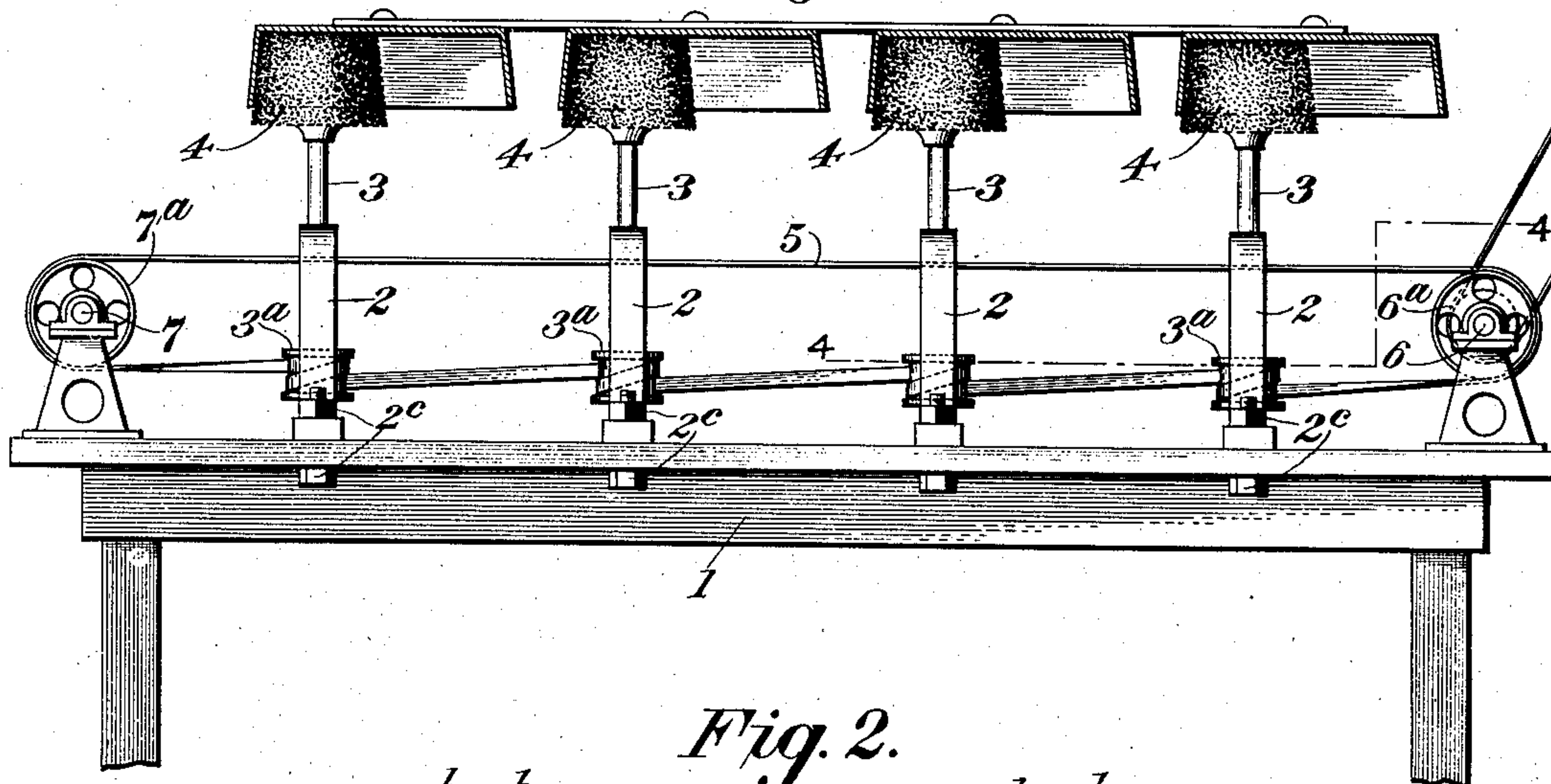
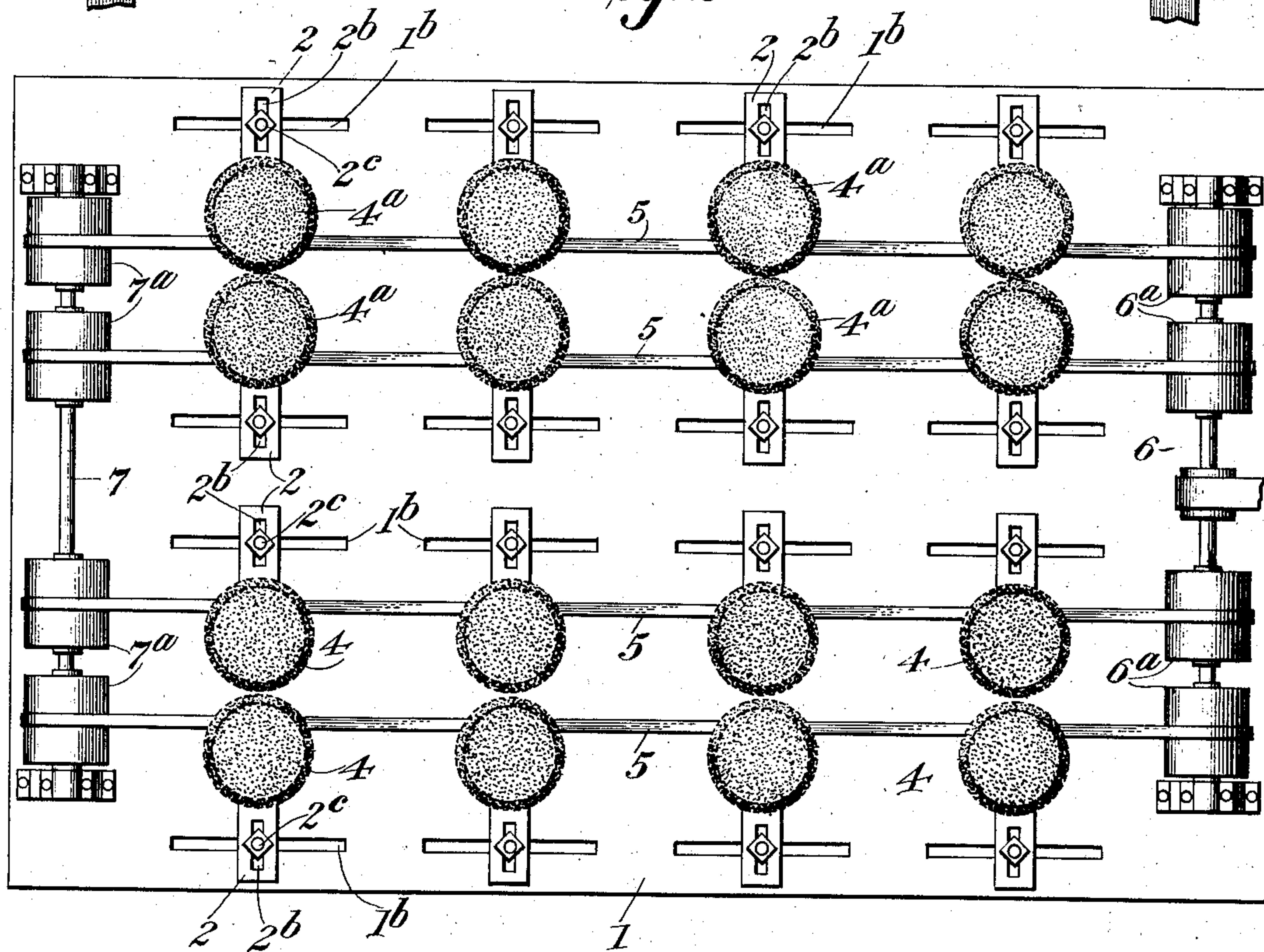


Fig. 2.



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Witnesses

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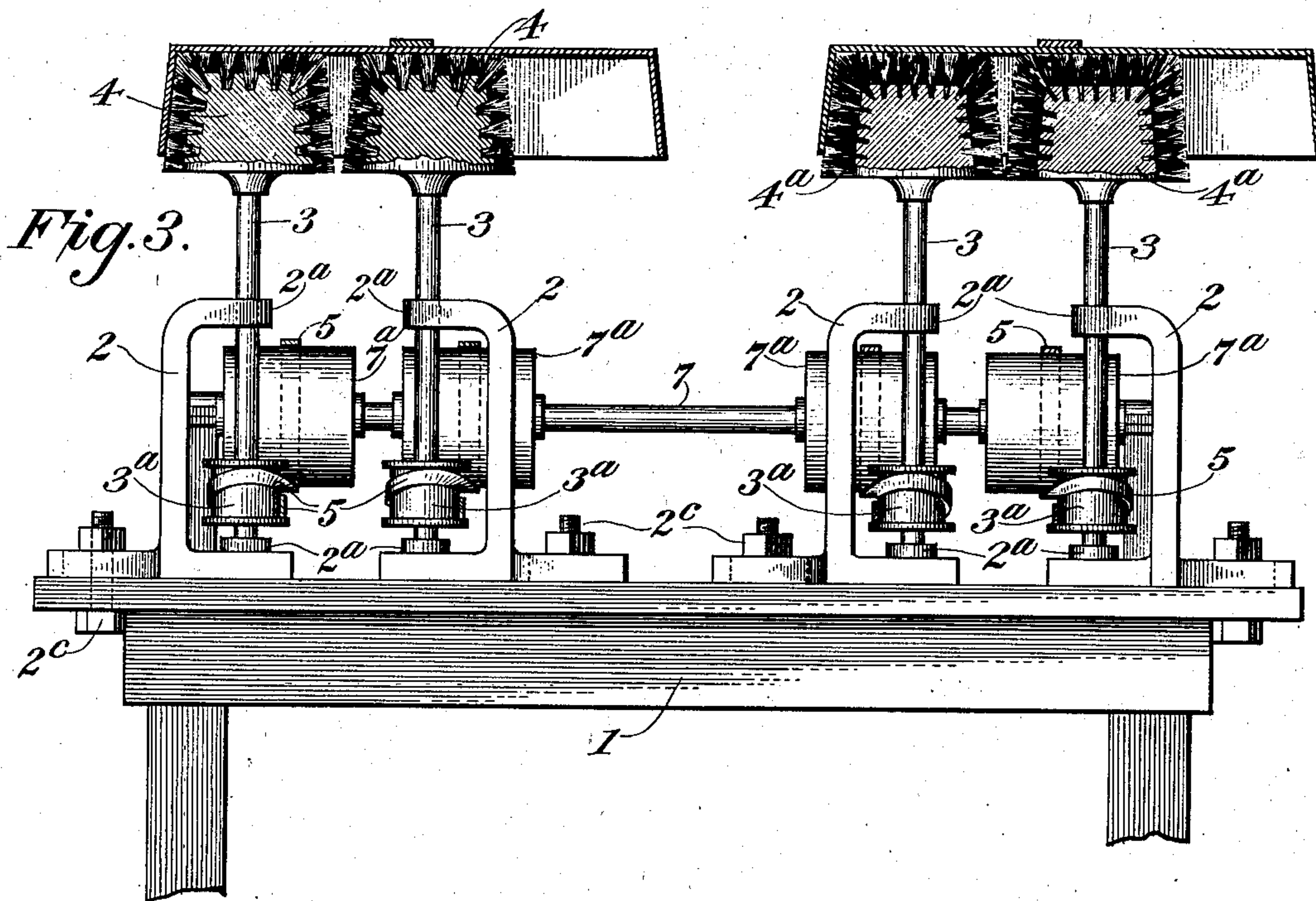


Fig. 4.

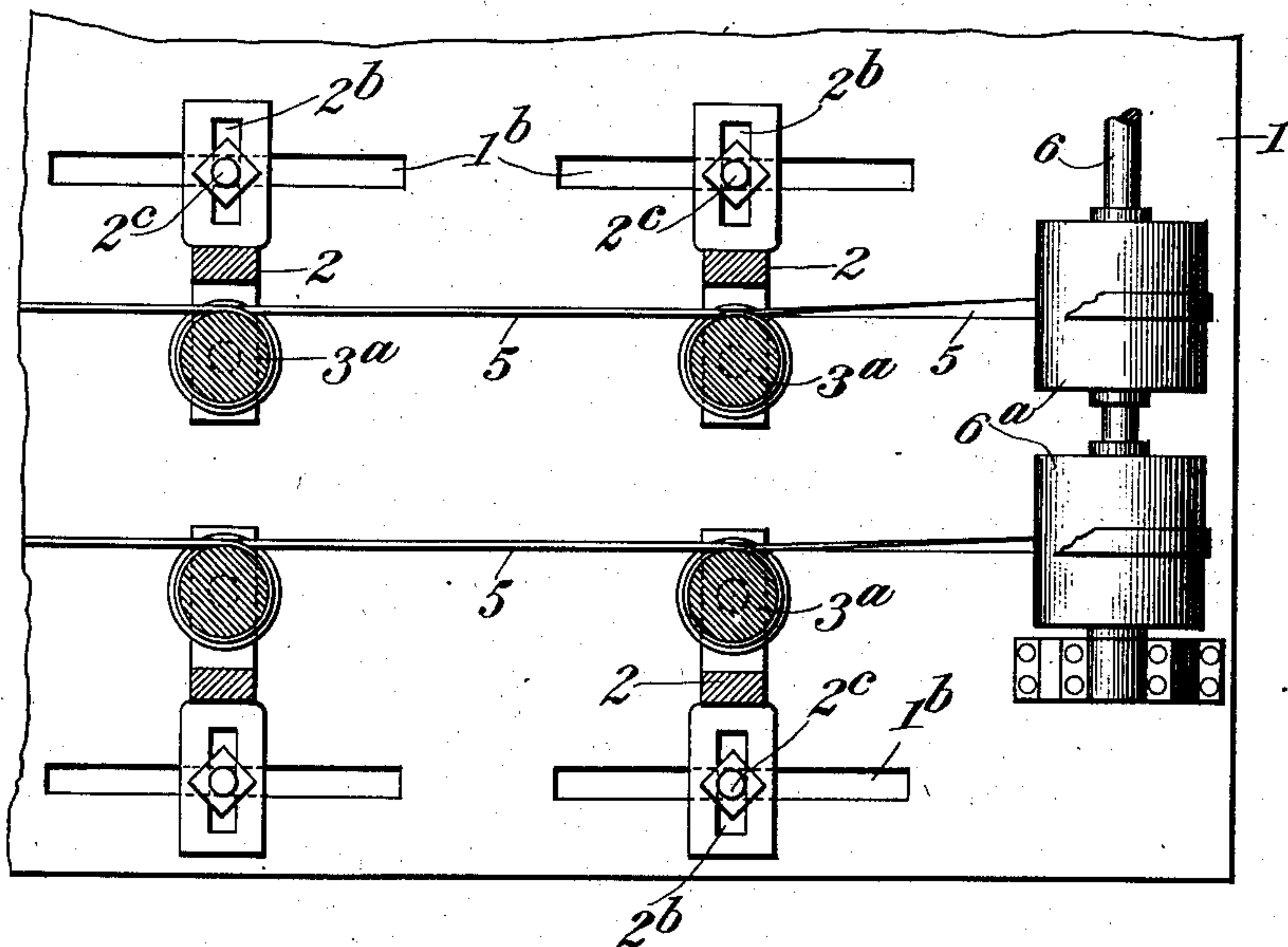
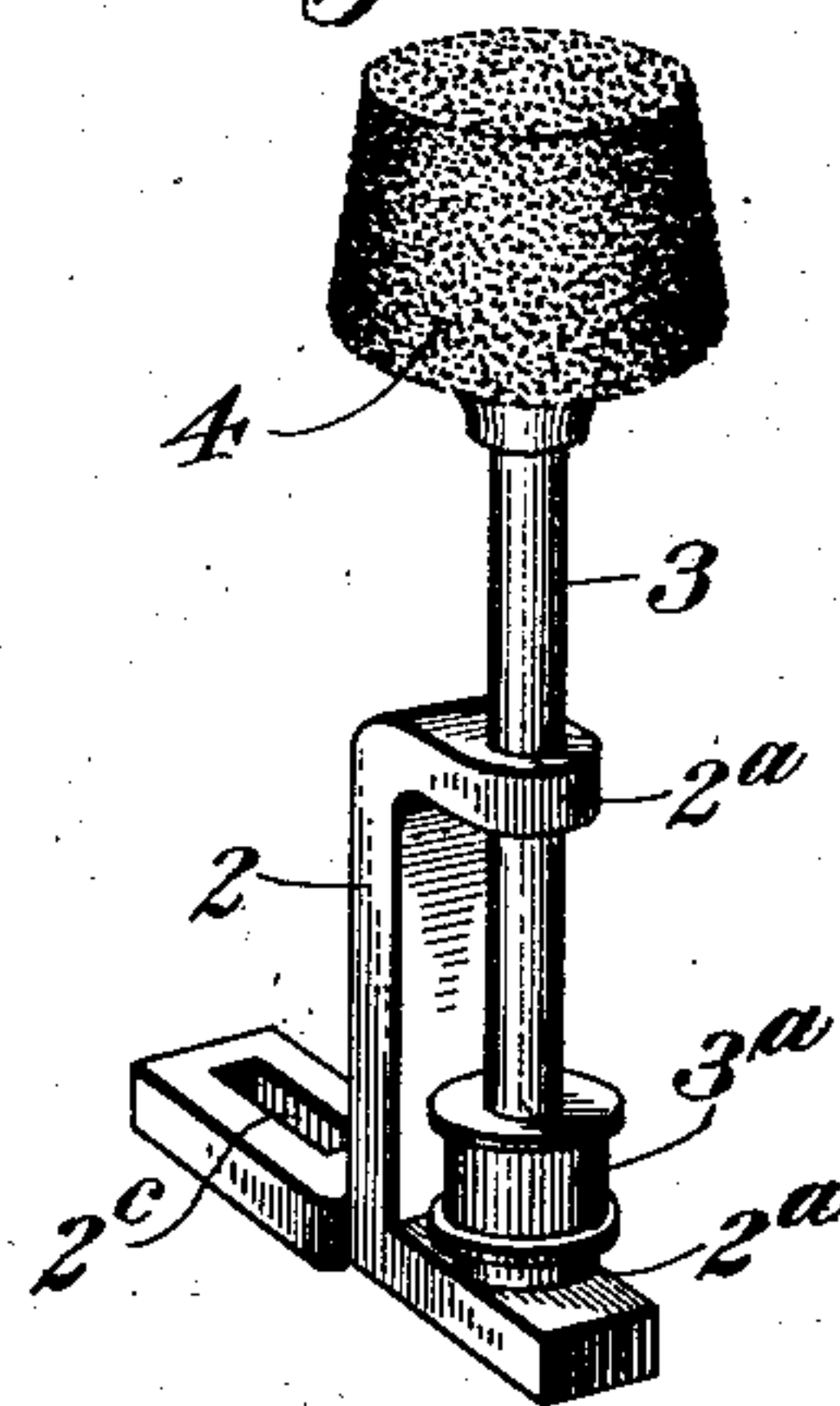


Fig. 5.



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UNITED STATES PATENT OFFICE.

GEORGE W. WALK, OF PITTSBURG, PENNSYLVANIA.

MACHINE FOR CLEANING AND GREASING PANS.

997,347.

Specification of Letters Patent.

Patented July 11, 1911.

Application filed March 25, 1909. Serial No. 485,700.

To all whom it may concern:

Be it known that I, GEORGE W. WALK, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented cer-
tain new and useful Improvements in Ma-
chines for Cleaning and Greasing Pans; and
I hereby declare that the following is a full,
clear, and exact description thereof, refer-
ence being had to the accompanying draw-
ings, which form part of this specification.

This invention is a novel machine for
cleaning and greasing pans, being especially
designed for use in bakeries where a large
number of pans are used.

The machine in brief comprises a number
of pairs of rotary brushes which are pref-
erably arranged on a vertically disposed axis
so that the pans can be held upside down
thereover and cleaned or greased with fa-
cility; all the brushes in a row may be
driven by a common belt; the brush stand-
ards are adjustable so that the brushes in
each pair can be set at any desired distance
apart so as to enable the brushes to operate
most advantageously upon the pans; the
distance apart of the brushes being variable
according to the diameters of the pans to be
cleaned.

Preferably the machine contains two se-
ries of pairs of brushes, one series being
used for cleaning the pans and the other se-
ries for greasing the pans; the cleaning and
greasing devices being substantially alike
except that longer bristles are used on the
greasing brushes. The brushes are not in-
tended to entirely fill the pans; a number
of pairs of such brushes are preferably ar-
ranged in each machine, and the pairs are
adjustable to or from each other so that a
number of pans may be simultaneously
cleaned. It is customary in many bakeries
to have a number of pans connected by
straps so that they can be handled as units;
and by my machine such sets of pans can be
cleaned simultaneously, as one pan, and may
be greased in a similar manner.

I will now describe the invention in detail
as embodied in the machine illustrated in the
accompanying drawings, in which—

Figure 1 is a side view of the complete
machine. Fig. 2 is a plan view. Fig. 3 is an
enlarged end view thereof, with near drive
shaft and pulleys removed. Fig. 4 is an en-
larged detail horizontal sectional view on
line 4—4, of Fig. 1. Fig. 5 is a detail per-

spective view of one of the brushes and its
supporting brackets.

1 represents a base or table upon which
the operative parts are mounted; upon this
table are adjustably mounted a number of
brackets 2, each of which is provided with
bearings 2^a for preferably vertically dis-
posed brush spindles 3 upon which are
mounted brushes 4. Each bracket 2 is ad-
justably secured to table 1 by means of a
bolt and nuts 2^c transfixing a slot 2^b in the
base of the bracket and a slot 1^b in the top
of the table. The brackets 2 are arranged in
pairs, so as to have brushes 4 in pairs; the
pairs of brackets are preferably disposed
transversely of the table as shown, and the
brackets in each pair can be readily adjust-
ed to or from each other by reason of the
slots 2^b, and can be adjusted longitudinally
of the table by reason of the slots 1^b; the
construction being such that the brushes 4
can be adjusted anywhere from the mini-
mum to the maximum distance apart, and
thus be arranged to operate most effectively
upon pans of any diameter. As shown there
are four pairs of cleaning brushes 4 mount-
ed in this manner in one series on the ma-
chine; and there are four pairs of greasing
brushes 4^a similarly mounted in one series
on the machine; the series of greasing
brushes lying parallel with the series of
cleaning brushes.

The brush spindles 3 are provided with
spools or pulleys 3^a, and the pulleys 3^a in
each longitudinal row of brush-spindles are
driven by a common belt or rope 5 which
extends from a pulley 6^a on a driven shaft
6, at one end of the machine, to and around
the several pulleys 3 and to and over an idler
pulley 7^a on an idler shaft 7 at the other end
of the machine, and then straight back to
the pulley 6^a,—the belt being given one turn
around each pulley 3^a so that all the brushes
will be driven in unison and at the same
speed by a common belt. The other rows of
brush-pulleys may be similarly driven by
belts 5 from pulleys 6^a on shaft 6 as shown.
This is a very simple and efficient form of
drive, and enables the brushes to be inde-
pendently adjusted without necessitating
changing of the belts, and insures uniform-
ity of rotation of the brushes.

The brushes 4 are preferably cylindric
and may be removably fastened to the up-
per ends of the spindles 3 by screwing them

thereon or in other suitable manner. The brushes are preferably covered on their sides and tops with bristles as shown. The greasing brushes 4^a preferably have longer
5 and softer bristles than the brushes 4, otherwise the cleaning and greasing devices are substantially alike.

In using the device the operator takes a pan and turns it upside down over a pair of
10 the brushes as indicated in Figs. 1-3; and then moves the pan around over the brushes with a gyratory motion until it is cleaned; for ordinary sized pans two brushes are employed, this facilitates the cleaning op-
15 eration, and as the brushes are small they can clean the corners more thoroughly than large brushes. For very small pans one brush can be used.

In large bakeries it is customary to connect several pans together, by riveting them to straps, so that such pans can be handled as one; and my machine is particularly adapted for use with such sets of pans, as the pairs of brushes can be adjusted so that
25 all the pans in a set can be simultaneously cleaned as indicated in Figs. 1-3. The vertical arrangement of the brushes and adjustability of the brackets, whereby it is possible to adjust the brushes in each pair,
30 and also to adjust the pairs of brushes, renders the machine very useful and adaptable for cleaning all sizes of pans and sets of pans. The greasing of the pans can be ef-

fectured in the same manner as the cleaning; the workman after cleaning the pans simply placing them upon the greasing brushes in the same way. 35

Having described my invention what I claim as new and desire to secure by Letters Patent thereon is: 40

1. In combination a table, adjacent relatively adjustable brackets mounted on the table, a vertically disposed brush spindle journaled in each bracket, a brush on each spindle, said brushes being parallel and having their axes vertical, and means for driving the said spindles. 45

2. In combination a table, pairs of brackets adjustably mounted on the table, vertically disposed brush spindles journaled in said brackets, brushes on said spindles, and pulleys on the brush spindles; with a driven shaft at one end of the table, an idler shaft at the other end thereof, belts running from pulleys on the driving shaft successively around the belt pulleys on a row of spindles to and over pulleys on the idler shaft and back to the driving shaft. 55

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses. 60

GEORGE W. WALK.

Witnesses:

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W. F. McMECHAN.