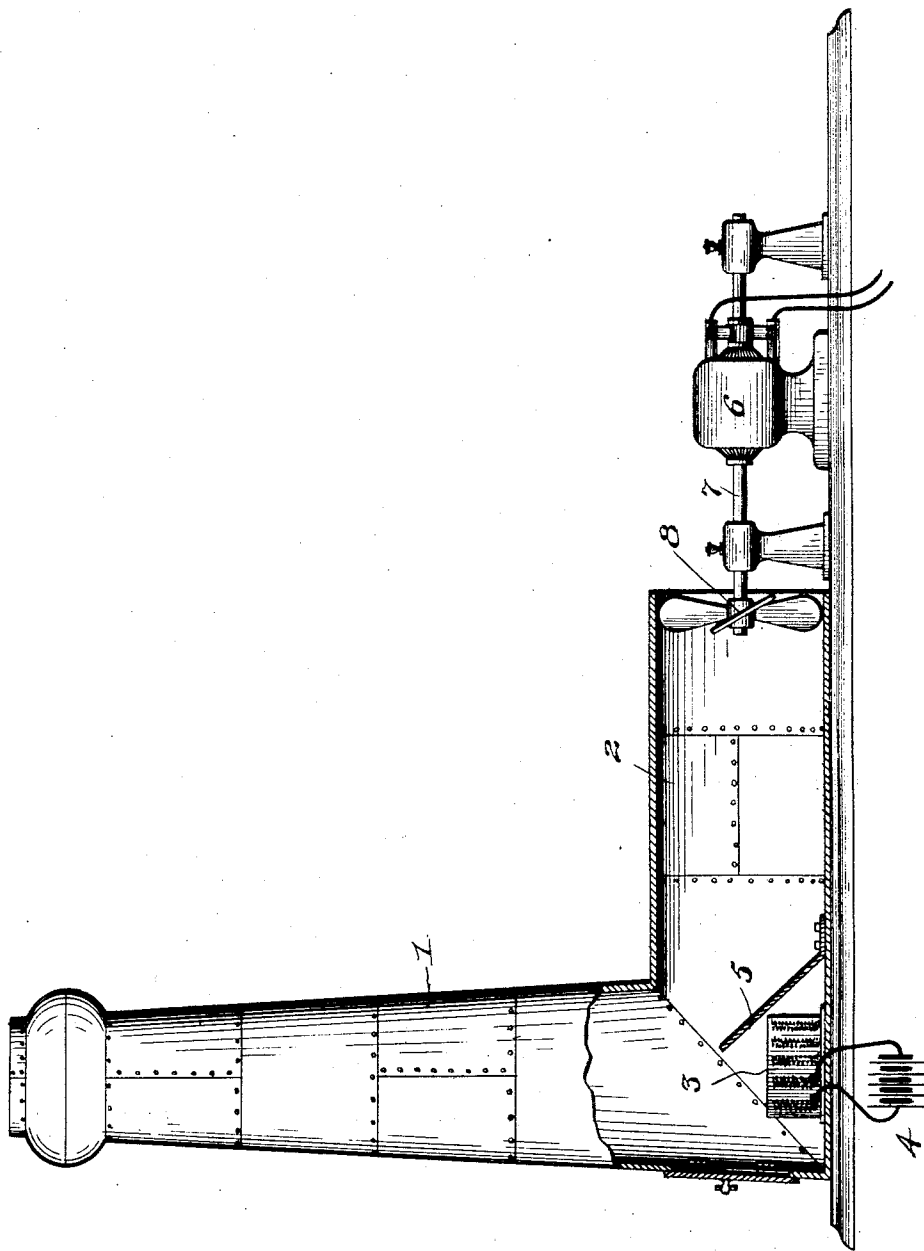


No. 695,524.

Patented Mar. 18, 1902.

E. C. WOODDELL.
ELECTRIC GENERATOR.

(No Model.)



Inventor

E. C. Woodell

Witnesses

J. A. Griesbauer, Jr.
J. A. Hillson

By

A. B. Wilson & Co.

Attorneys

UNITED STATES PATENT OFFICE.

ENOCH CLAUD WOODELL, OF HIGHPOINT, NORTH CAROLINA.

ELECTRIC GENERATOR.

SPECIFICATION forming part of Letters Patent No. 695,524, dated March 18, 1902.

Application filed August 29, 1901. Serial No. 73,756. (No model.)

To all whom it may concern:

Be it known that I, ENOCH CLAUD WOOD-
ELL, a citizen of the United States, residing
at Highpoint, in the county of Guilford and
5 State of North Carolina, have invented certain
new and useful Improvements in Electrical
Generators; and I do declare the following to
be a full, clear, and exact description of the
invention, such as will enable others skilled
10 in the art to which it appertains to make and
use the same.

The invention relates to electrical genera-
tors.

The object of the invention is to operate a
5 dynamo-machine by suction or vacuum cre-
ated by the passage of a current of warm or
hot air through a flue.

With this and other objects in view the in-
vention consists of certain novel features of
0 construction, combination, and arrangement
of parts, which will be hereinafter more fully
described, and particularly pointed out in the
appended claims.

In the accompanying drawing the figure is
5 a view illustrating, partly in section and in
conventional form, my invention.

Referring to the drawing, 1 denotes an up-
take or flue having a horizontal communicat-
ing branch 2.

3 denotes a heater placed within the hori-
zontal branch 2 of the flue, preferably an
electrical heater connected up with a suitable
number of batteries 4.

5 denotes an inclined deflector arranged in
the horizontal branch 2 to one side of the
electric heater, so as to deflect the heat di-
rectly into the vertical part 1 of the flue, thus
drawing through the open end of the branch
2 currents of air, which are entrained with
0 the heated air from the electrical heater and
pass up out of the upper end of the flue or up-
take 1.

6 denotes a dynamo-electric machine, to
the armature-shaft 7 of which is fixed a fan or
5 propeller wheel 8, which projects into the open
end of the horizontal branch 2 of the flue.

In operation as the air is drawn through
the open end of the horizontal branch 2 by
the heated air passing upwardly through the
0 uptake 1 the fan or propeller wheel will be

rapidly rotated, thus rotating the armature-
shaft and generating electricity in the usual
manner.

From the foregoing description, taken in
connection with the accompanying drawing, 55
the construction, mode of operation, and ad-
vantages of the invention will be readily un-
derstood without requiring a more extended
explanation.

While I have shown an electric heater for 60
creating a current of air, I would have it dis-
tinctly understood that I do not wish to limit
myself to this form of heater, as it is per-
fectly obvious that any other form of heater
may be used and the same result produced. 65
Having thus described my invention, what
I claim, and desire to secure by Letters Pat-
ent, is—

1. A dynamo-electric machine, in combina-
tion with a flue, a heater for causing a suction 70
in said flue, and a fan or propeller connected
to the armature-shaft of the dynamo-machine
and extended within the force of the suction,
substantially as set forth.

2. The combination with a vertical flue hav- 75
ing a horizontal branch communicating there-
with and open to the atmosphere, a heater
arranged within the horizontal branch of the
flue immediately below the uptake, a deflector
for deflecting the heat directly into the up- 80
take, a dynamo-electric machine, and a fan
or propeller fixed to the shaft of the arma-
ture and projecting within the open end of
the horizontal branch and rotated by the air
passing into said branch and entrained by 85
the heat from the heater, substantially as set
forth.

3. A dynamo-electric machine, in combina-
tion with a flue, a heater for producing a cur-
rent of air in said flue, and a fan or propeller 90
operatively connected to said dynamo-eletric
machine and actuated by the air-current, sub-
stantially as set forth.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- 95
nesses.

ENOCH CLAUD WOODELL.

Witnesses:
FRANK GURLEY,
M. SHAW.