

(No Model.)

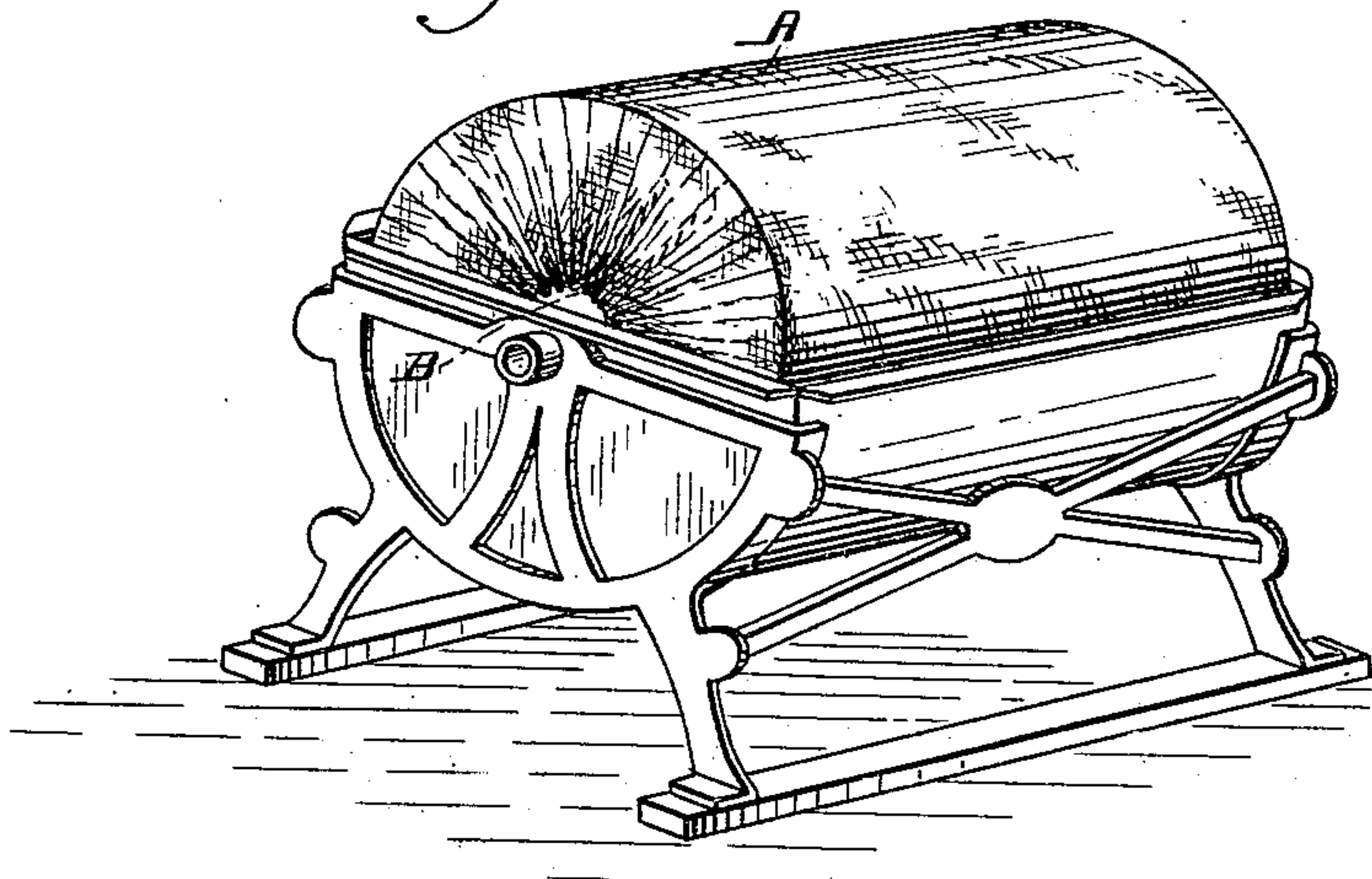
H. C. DE WITT.

CARBURETOR.

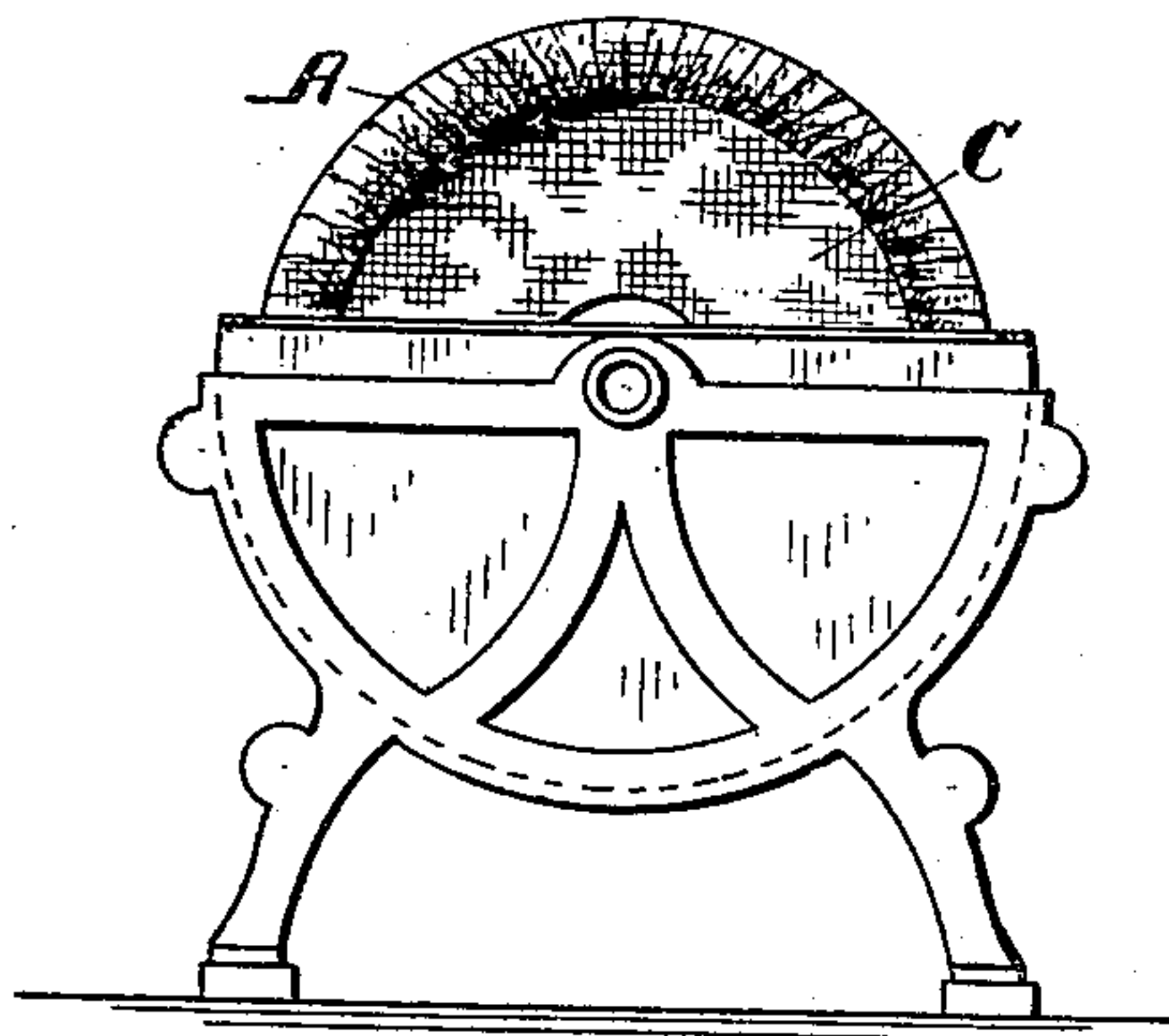
No. 262,651.

Patented Aug. 15, 1882.

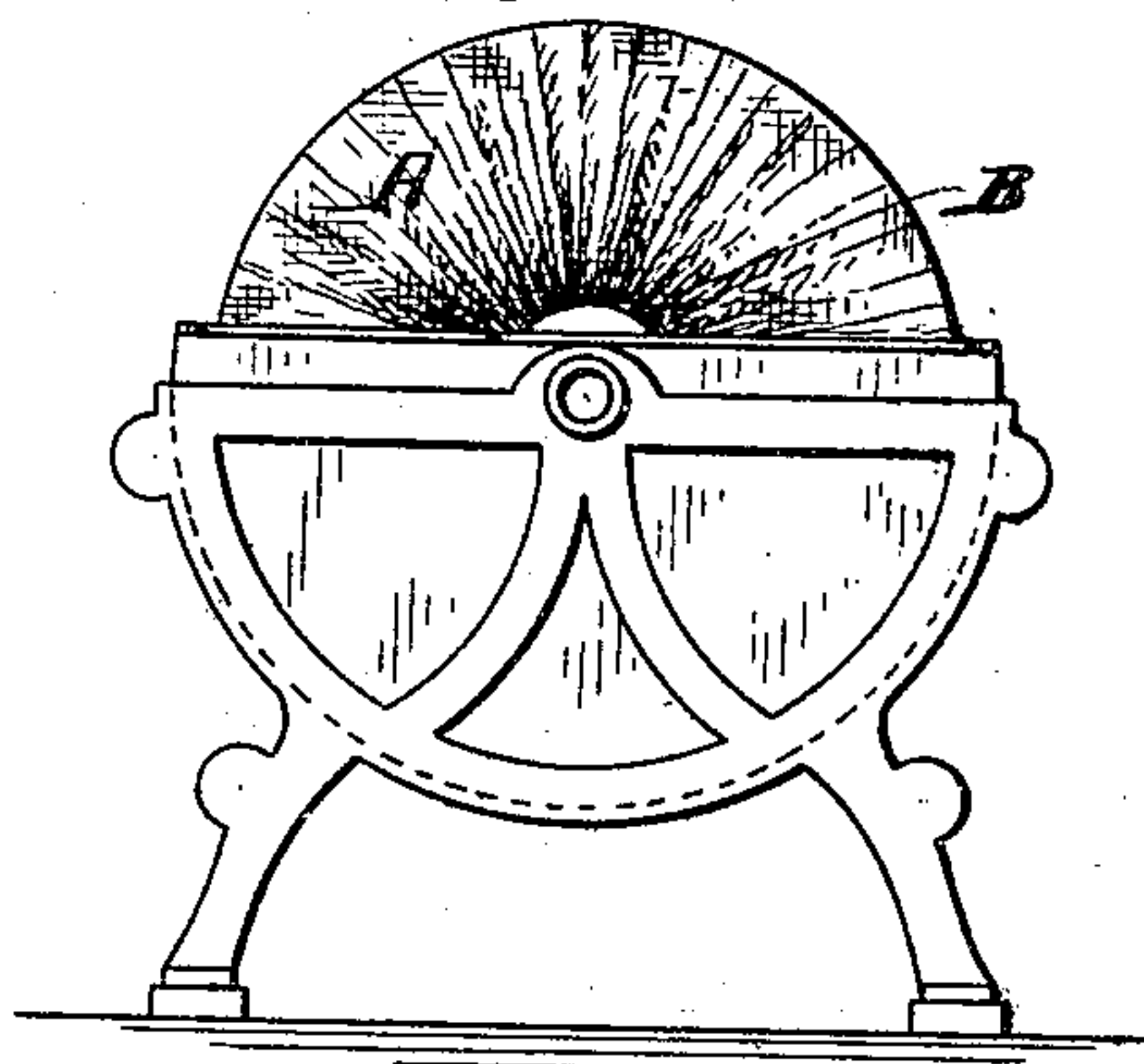
*Fig. 1.*



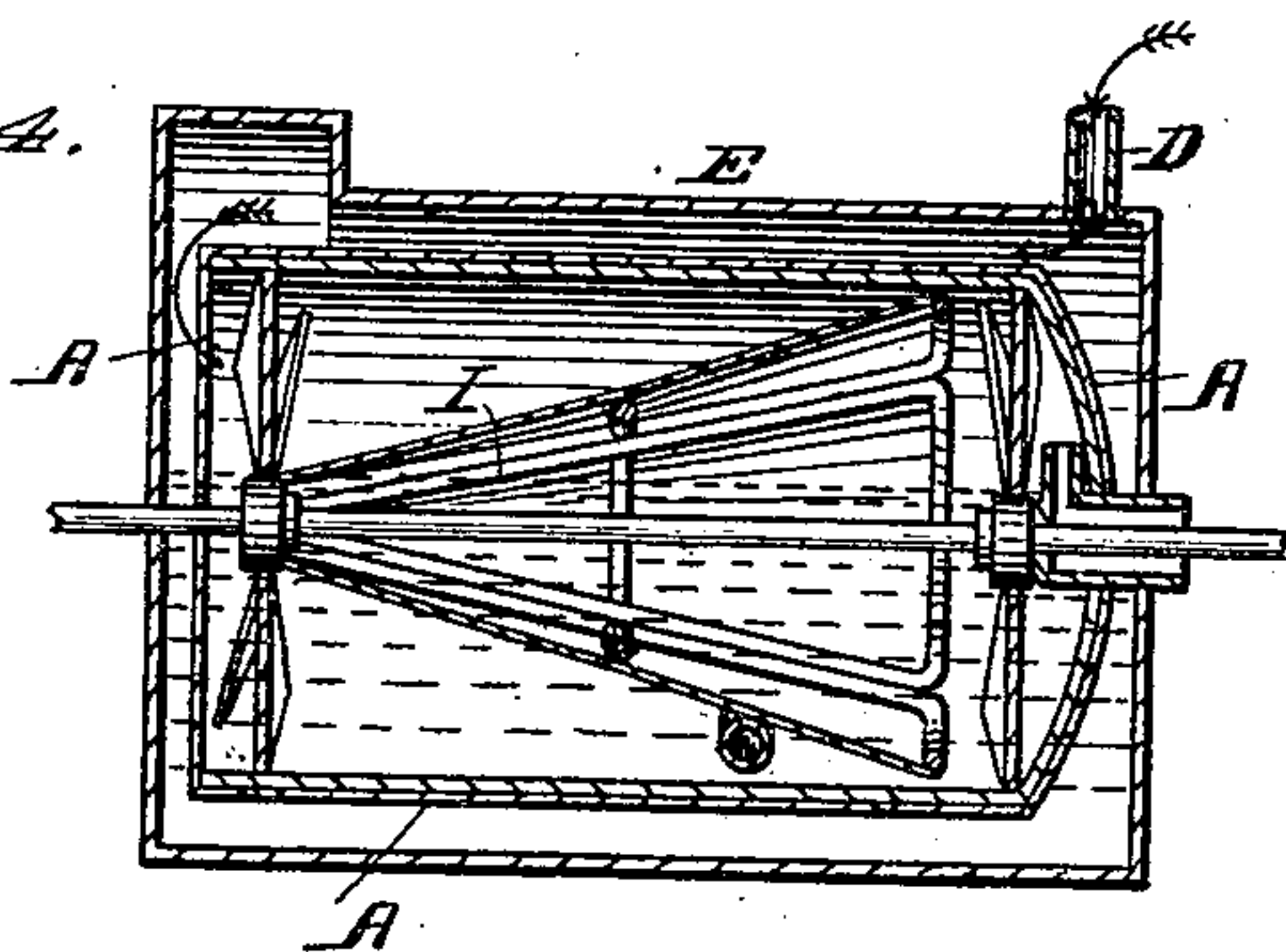
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses.  
Henry Frankfurter,  
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per.

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# UNITED STATES PATENT OFFICE.

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THE EXCELSIOR GAS LIGHT AND MANUFACTURING COMPANY, OF SAME  
PLACE.

## CARBURETOR.

SPECIFICATION forming part of Letters Patent No. 262,651, dated August 15, 1882.

Application filed December 24, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY C. DE WITT, a  
citizen of the United States, residing at the city  
of Chicago, in the State of Illinois, have in-  
vented certain new and useful Improvements  
in Carburetors for Portable Gas-Machines, of  
which the following is the specification.

The nature and object of my invention is to  
provide a means whereby the vapor arising  
from the naphtha or gasoline and the air will  
be thoroughly intermingled, and in such quan-  
tities as will produce a satisfactory illuminat-  
ing-gas.

Figure 1 is a perspective view of my im-  
provement with the upper half of the case re-  
moved, showing the drum with its jacket.  
Fig. 2 is an end view of same showing one  
means of adjusting the jacket at end of drum.  
Fig. 3 is an end view of same showing another  
manner of adjusting jacket at end of drum.  
Fig. 4 is a vertical section of carburetor.

Similar letters of reference refer to similar  
parts in the drawings.

I employ mechanism similar in construction  
to that shown and described in my Patent  
No. 149,163, dated November 8, 1881, for forc-  
ing the gas into and through the pipes.

Around the revolving drum I place a jacket,  
A, of cloth of thick and coarse material. This  
jacket embraces the entire outer surface of the  
drum, and extends over the ends of drum, and  
is gathered around the axis thereof at a short  
distance from it by a strong thread or cord,  
as shown at B, Figs. 1 and 3. Instead of ex-  
tending the jacket over the ends of the drum  
and gathering it, as above described, it can  
be extended out a short distance over the end  
and fastened to a head of cloth, separate and  
apart from the jacket, as shown at C, Fig. 2. In  
Fig. 4 is shown the relative position of the jacket,  
the drum, and interior of the drum. D, Fig. 4,  
is the air-tube connected with the case E. As  
the drum is revolved this jacket throughout  
its entire surface is immersed in the fluid  
used for making the gas, and, as successive

parts arise from the fluid in consequence of  
its fibrous nature, carries with it more or less  
of the fluid, or, in other terms, the jacket at  
all times is more or less saturated with the  
fluid.

Air is admitted into the carburetor through  
the air-tube D, and passes along between the  
casing and jacket A and through the head C into  
the interior of the drum and through the dis-  
seminators I, which are the same in construc-  
tion and operation as those I employ in my Pat-  
ent No. 149,163, and dated November 8, 1881,  
and are made by stretching a piece of coarse  
fabric on a suitable wire frame, and placed,  
one in each compartment of the drum, ob-  
liquely to the axis thereof, the wider end be-  
ing placed at the periphery of one end of drum  
and the narrow end at its axis.

I am aware that the drum or pump of a car-  
bureting-machine has been covered with text-  
ile fabric. In my improvement I do more than  
this. I extend the jacket A over each end  
of the drum, and at the open end of the drum  
it forms a diaphragm.

I claim—

1. In a carbureting-machine, the combina-  
tion of a drum having a closed metallic end  
and an open end, and a jacket of textile ma-  
terial covering the cylindrical portion and  
solid end, and a head-piece or diaphragm  
stretched across the open end of the drum,  
all constructed and arranged substantially as  
and for the purpose specified.

2. In a carbureting-machine, the combina-  
tion of the metallic drum having a closed and  
open end, and a jacket of textile material cov-  
ering the cylindrical portion and closed end  
of said drum, and stretched across the open  
end of said drum, with the disseminater I and  
air-inlet and gas-outlet pipes, as described.

HENRY C. DE WITT.

Witnesses:

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JAS. A. COWLES.