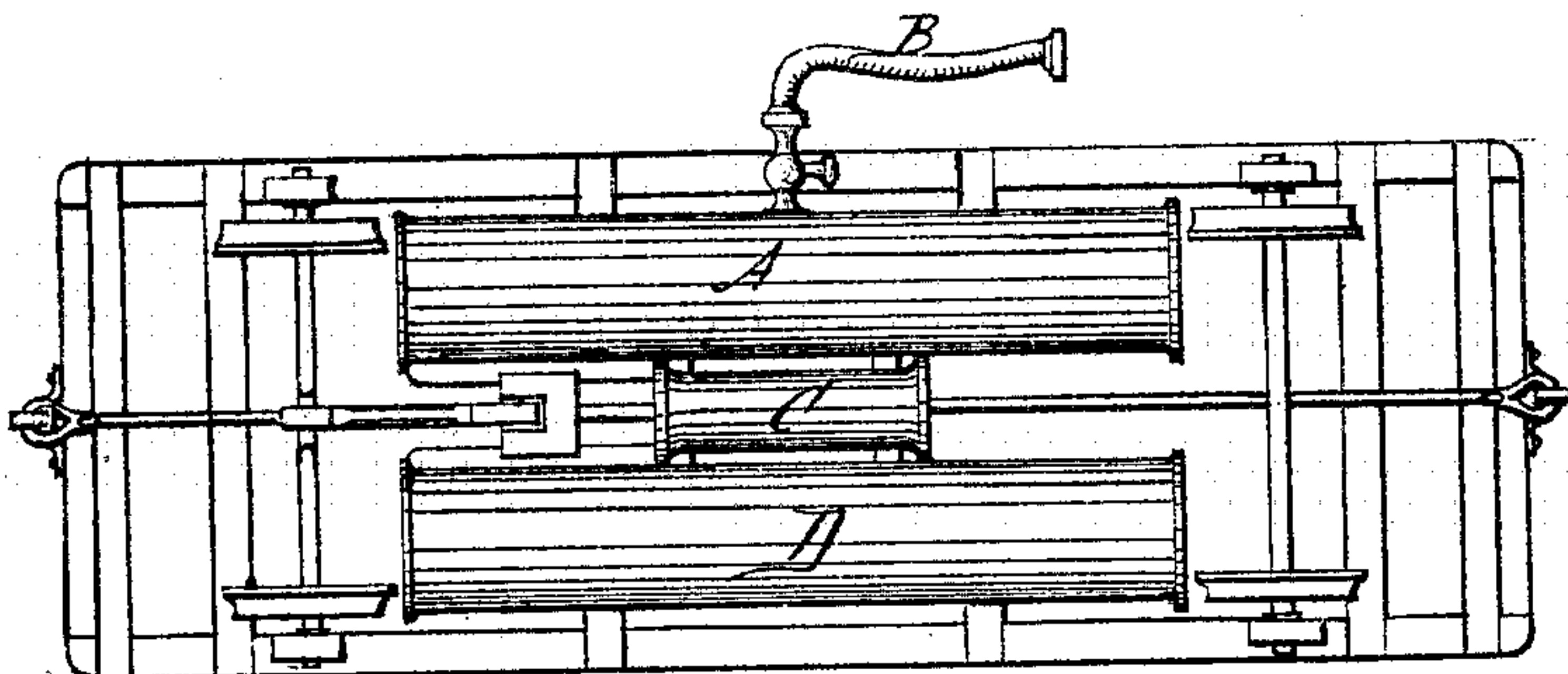
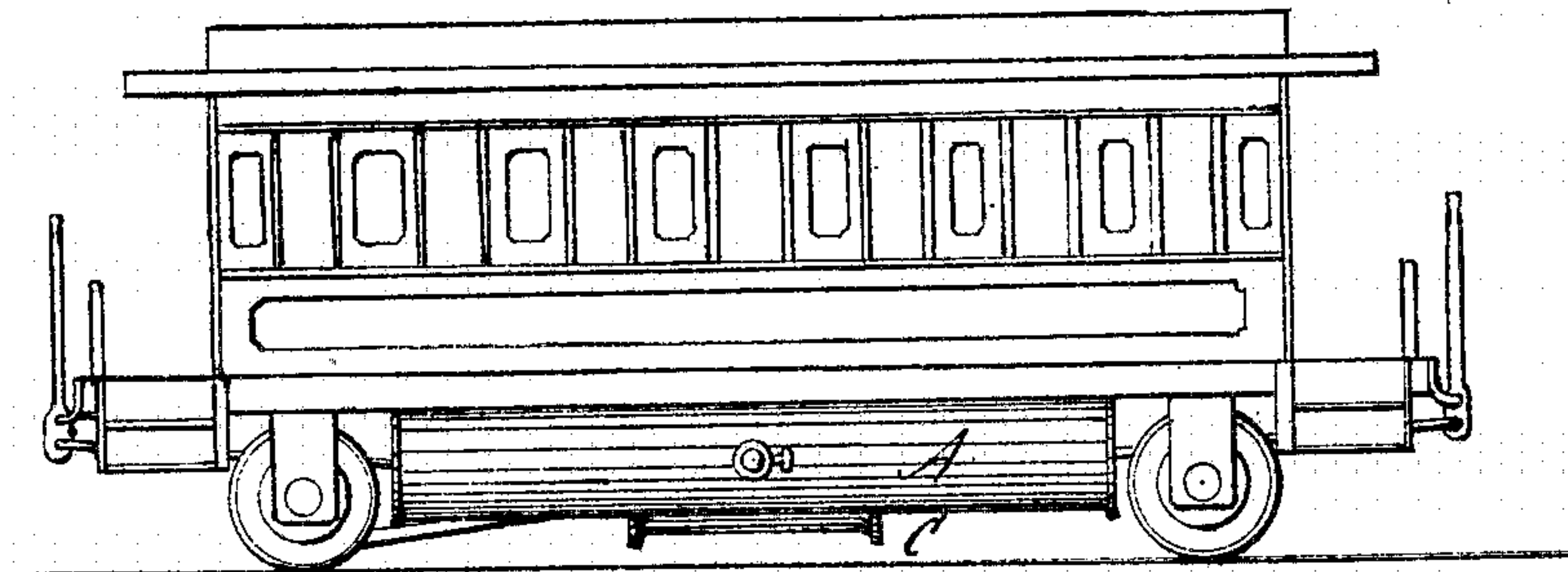


GOTHELF CARTNER, & CHAS. DIEBOLD.

Steam Motor.

No. 121,864.

Patented Dec. 12, 1871.



Witnesses.

R. H. Steele
F. B. Curtis.

Inventor.

G. Cartner & Chas. Diebold
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UNITED STATES PATENT OFFICE.

GOTHELF GÄRTNER AND CHARLES DIEBOLD, OF LEBANON, PENNSYLVANIA.

IMPROVEMENT IN METHODS OF OPERATING LOCOMOTIVE STEAM-ENGINES.

Specification forming part of Letters Patent No. 121,864, dated December 12, 1871.

To all whom it may concern:

Be it known that we, GOTHELF GÄRTNER and CHARLES DIEBOLD, of Lebanon, in the county of Lebanon and State of Pennsylvania, have invented a new and valuable Improvement in Steam-Motors; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of a car, showing application of our invention. Fig. 2 is a bottom view of the same.

This invention has relation to an improvement in steam-motors; and the novelty consists in the propulsion of cars or machinery of a portable character by means of steam which has been generated in apparatus apart or separated from that to which it is applied as a motor and conveyed to capacious receivers connected with the steam-cylinder, to be kept and used as required.

The accompanying drawing illustrates a practical application of our invention, the subject being a street car.

A represents a receiver, which is filled with steam from a generator by a tube, B. C is the steam-cylinder, to which the steam is admitted directly from the receiver A. D indicates a condenser or reservoir, into which the exhaust steam, under control of a throttle-lever or equivalent, is conducted by a pipe from the cylinder.

This invention is of utility for many purposes beside that described; as, for instance, propelling ferry-boats or any portable apparatus of a like character.

We claim as our invention—

The employment, as motive power in propelling cars, boats, or other portable steam apparatus, of steam contained in receivers entirely disconnected from the generator, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

GOTHELF GÄRTNER.
CHAS. DIEBOLD.

Witnesses:

BASSLER BOYER,
ELLEN B. BOYER.

(94)