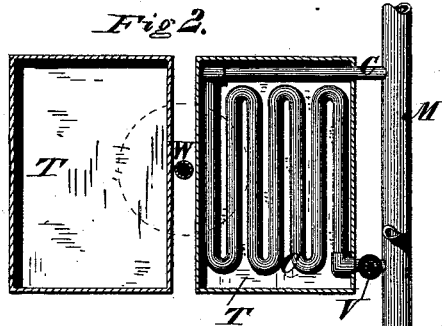
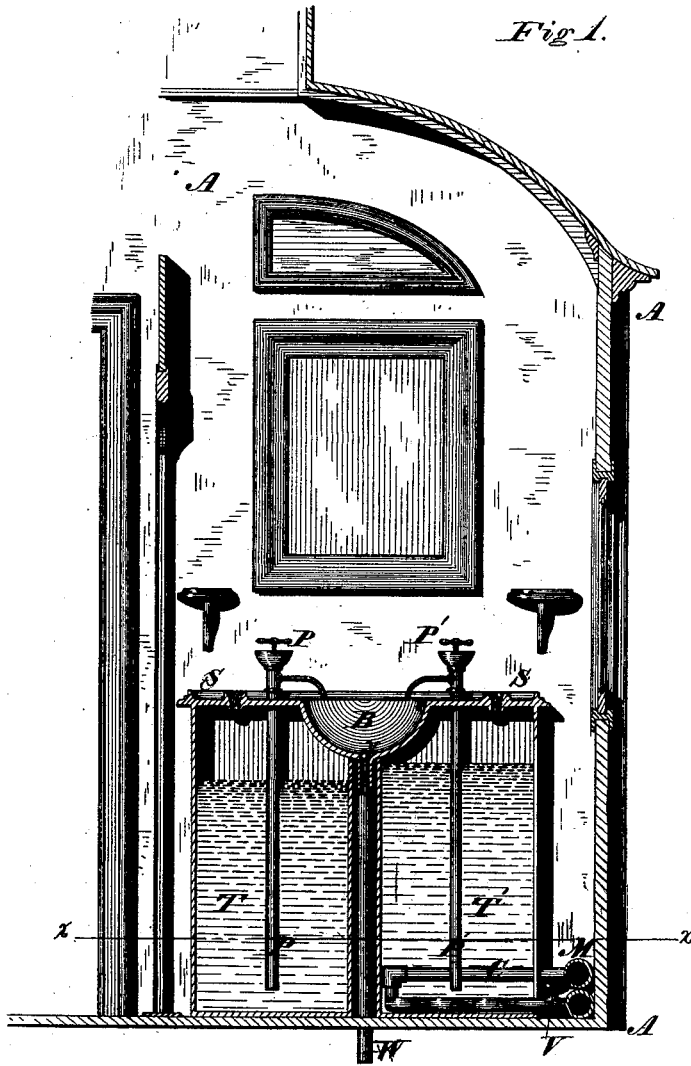


C. E. LUCAS.

LAVATORY FOR SLEEPING-CARS.

No. 191,691.

Patented June 5, 1877.



Witnesses.

*Harry King*  
*D. P. Cowl*

Inventor.

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*By his Attorneys,*  
*Stansbury & Munn.*

# UNITED STATES PATENT OFFICE.

CHRISTIAN E. LUCAS, OF ATLANTA, GEORGIA.

## IMPROVEMENT IN LAVATORY FOR SLEEPING-CARS.

Specification forming part of Letters Patent No. **191,691**, dated June 5, 1877; application filed May 3, 1877.

*To all whom it may concern:*

Be it known that I, CHRISTIAN E. LUCAS, of Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Sleeping-Cars; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a vertical cross-section of the toilet-room and wash-stand of a railway sleeping or parlor car with my improvement applied. Fig. 2 is a horizontal section on line *x* of Fig. 1.

The same letter indicates the same part in both the figures.

The nature of my invention consists in providing the wash-room of a sleeping or parlor railway-car with a wash-stand composed of two tanks with a basin interposed between them, each tank having a pump to supply water to the basin, and one of the tanks being furnished with a coil of steam-tubing connected with the main steam-pipes by which the car is warmed; the object being to provide a supply of warm water for toilet purposes, and to prevent the freezing of the water in the toilet-tanks during cold weather—an accident which frequently occurs with the common apparatus, and causes injury, inconvenience, and discomfort.

The advantage to the traveler, especially to ladies, children, and invalids, of a constant supply of warm water for toilet use needs only to be suggested to be appreciated.

In the drawing, which represents a conven-

ient form of the invention, A marks the toilet or wash room; B, the basin of the wash-stand, which may be set in a slab or top, S, of any convenient or preferred style of construction, and provided with a valve, *v*, and waste-pipe W, as usual. Beneath the slab S are placed two tanks, T T', one, T, for holding cold water, and the other, T', for warm water. Near the bottom of tank T' is placed a coil of tubing, C, connected with the main steam-pipe M, which warms the car. A valve, V, controls the supply of steam to the coil C, which, when connected with M, forms part of the system of pipes supplied by the steam-boiler, and is kept hot by a continuous flow of steam through it, and imparts its temperature to the water in the tank. The basin is supplied with water by the pumps P P', leading, respectively, to the tanks T T'.

I claim—

1. The combination, with the heating steam-mains of a railway-car, of a steam-coil placed in the water-tank of the toilet-room, which supplies water to the wash-basin, all as and for the purposes described.

2. In the toilet-stand of a sleeping or parlor railway-car, the combination, with the wash-stand basin B, of the tanks T T', pumps P P', and steam-coil C, connected with the car-heating steam-mains, all constructed, arranged, and operating in the manner and for the purposes set forth.

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

CHRISTIAN E. LUCAS.

Witnesses:

E. F. HOGE,  
HOKE SMITH.