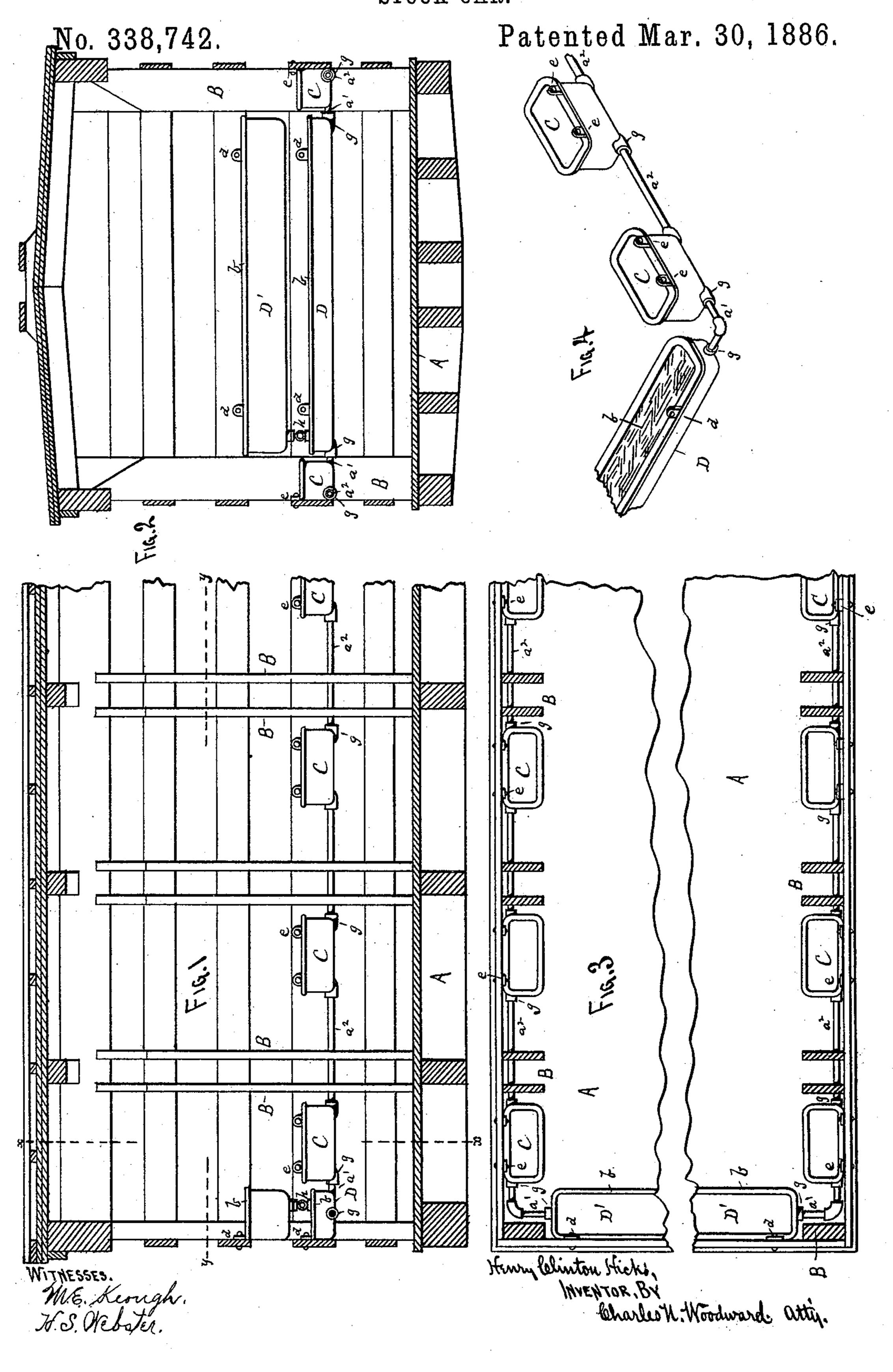
H. C. HICKS.
STOCK CAR.



United States Patent Office.

HENRY CLINTON HICKS, OF MINNEAPOLIS, MINNESOTA.

STOCK-CAR.

SPECIFICATION forming part of Letters Patent No. 338,742, dated March 30, 1886.

Application filed September 12, 1885. Serial No. 176,975. (No model.)

To all whom it may concern:

a citizen of the United States, and a resident of Minneapolis, in the county of Hennepin 5 and State of Minnesota, have invented certain new and useful Improvements in Watering Attachments to Stock-Cars, of which the fol-

lowing is a specification.

drink from them.

In the drawings, Figure 1 is a sectional side 10 elevation of a portion of one end of a stockcar with my improvements attached thereto. Fig. 2 is a cross-section on the line x x of Fig. 1. Fig. 3 is a plan view in section on the line y y of Fig. 1. Fig. 4 is a perspective view, 15 detached, of a portion of one of the supply tanks or reservoirs and two of the watering-

troughs. A is the floor, and B the stanchions or open frame-work, of a stock-car, the stanchions be-20 ing arranged, as shown, in pairs about six inches apart, and with about three feet of space from center to center of each pair of stanchions, the stanchions being intended to be used as guides for the stall-bars, as in my 25 Patent No. 288,335, dated November 13, 1883. Between each pair of the stanchions are arranged watering-troughs C, at a convenient height from the floor to enable the animals to

Across each end of the car will be arranged a tank or receiver, D, the lower line of the tanks being on the same plane as the lower lines of the troughs C, and the bottoms of each end of each tank connected to the bottoms of 35 the nearest trough C by pipes a', and all the remainder of the troughs connected to each other by similar pipes, a^2 , so that water poured into the tanks D will run from thence into all the troughs. The troughs will extend from 40 the ends of the car to the central doorways, each end of the car being supplied with its own tank D and system of connected troughs.

The tanks D will not be as deep as the troughs C, so that the latter cannot be filled 45 to overflowing; hence the water will not be liable to be spilled therefrom by the motion of the car.

The tanks D will be provided with covers b, and may also be provided with ears or lugs d, 50 by which they may be attached to the frame of the car; or, if preferred, the tanks may be supported by brackets or other suitable means. The troughs C are also provided with ears or lugs e, by which to attach them to the frame 55 of the car.

Be it known that I, Henry Clinton Hicks, be provided with enlargements g, to form sockets into which the pipes a' a^2 will be tapped.

> The tanks and troughs may be of any suit- 6c able size or material; but they will generally be made of cast-iron, and connected by sections of ordinary wrought gas or steam piping.

> I have shown in the drawings only a portion of one end of a car; but as both ends are 65 precisely alike this is sufficient to fully and

clearly illustrate the invention.

A second or auxiliary tank, D', may be arranged above each of the tanks D and supplied with stop-cocks h, by which the con- 70 tents may be run into the tanks D when required. By this means a double supply of water may be carried to be used during long journeys. By this simple arrangement each of the animals occupying the car will be sup- 75 plied with a separate drinking-trough, C, and by means of the tanks D and the connectingpipes a' a^2 all the troughs may be supplied at once by merely pouring the water into the tanks. Another advantage of this arrange-80 ment is that the tanks D hold a reserve supply of water of a quantity sufficient to replenish the troughs C with water as fast as the animals consume it, so that a sufficient amount can be carried at once to supply the 85 animals during a protracted journey, and by using the auxiliary tanks D' this reserve supply is still further increased, so that no necessity exists for halting the animals during transit for watering.

Having thus described my invention, what I

claim as new is—

In a stock-car, watering-troughs C, arranged along both sides of the car and connected together by pipes a^2 , in combination 95 with a tank, D, extending across the ends of the car in a substantially horizontal position and with its bottom in line with the bottoms of said troughs and with its top below the top line of said troughs and connected to ico said system of troughs by pipes a', substantially as and for the purpose set forth.

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

nesses.

HENRY CLINTON HICKS.

Witnesses:

C. N. WOODWARD, H. S. Webster.