

(No Model.)

J. H. LEA MOND.

STOCK BATH.

No. 257,596.

Patented May 9, 1882.

Fig. 1.

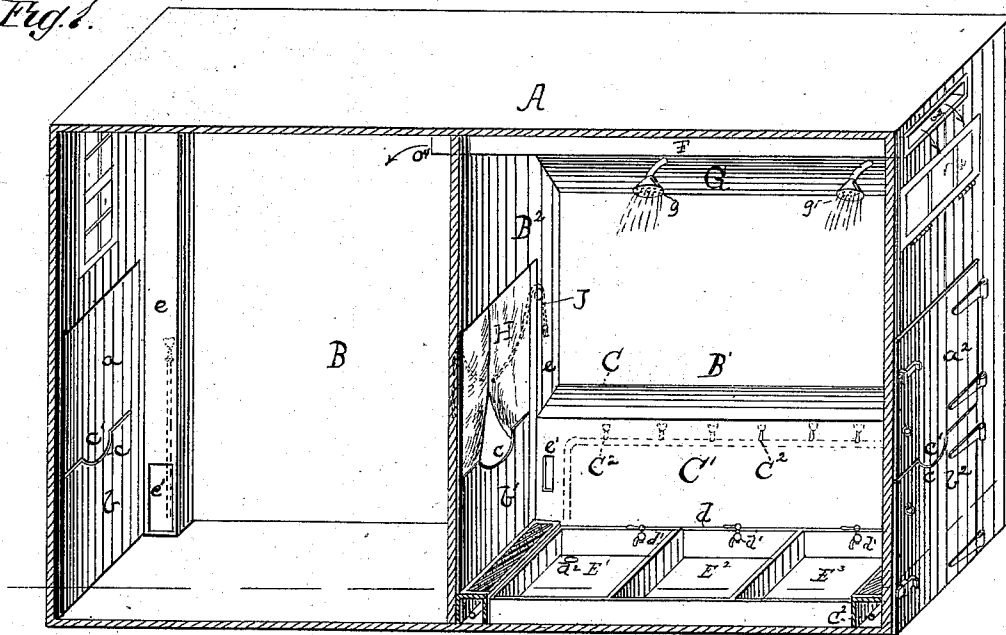


Fig. 2.

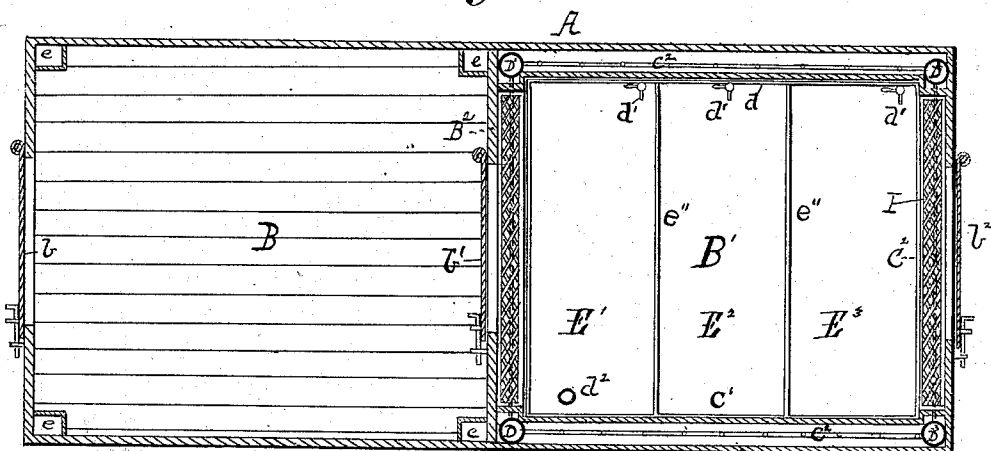
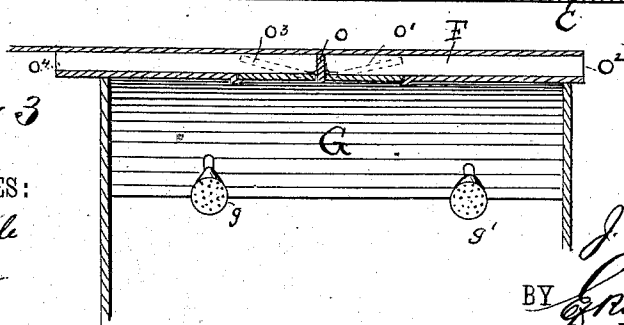


Fig. 3.



WITNESSES:

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STOCK-BATH.

SPECIFICATION forming part of Letters Patent No. 257,596, dated May 9, 1882.

Application filed January 31, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. LEA MOND, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Stock-Baths; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

10 My invention relates to certain novel means for giving baths to live stock, such as horses or cattle; and it consists in the construction of a building or structure divided into a cooling-chamber and a bathing-chamber, the bathing-chamber being constructed with double walls, having gas-jets or lamps and boilers arranged between the walls, and double doors provided with drop cloth or cloths on their upper parts and suitable ventilating and hot-air shafts; also, in providing the lower part or floor of the bathing-chamber with sectional tubs and supply and waste pipes for use as a foot or hip bath; and, further, in certain other details of construction hereinafter more fully explained.

15 This invention is illustrated in the accompanying drawings, in which Figure 1 is a sectional isometrical projection. Fig. 2 is a horizontal section of Fig. 1, and Fig. 3 is a detail section of the ventilating-flue.

Similar letters of reference indicate corresponding parts.

20 The letter A designates a building or structure divided into a cooling chamber or apartment, B, and a bathing-chamber, B', by a suitable partition, B², and provided with doors divided into the upper sections, *a a'*, and the lower sections, *b b'*, in such a manner as to leave a recess, *c*, in the lower section for the entry of the animal's head and neck when the top section of the door is open, and a corresponding projection, *c'*, in the upper section of the door to fit into the recess *c* when both sections of the door are closed, said doors being hinged to the opposite ends of the building or structure and to the partition separating the cooling and bathing chambers.

25 C designates the outer wall of the building or structure, and C' the inner wall in the bath-

ing-chamber, of a suitable height and joined to the outer wall by an open grating so constructed that the heat and steam, presently described, can pass from between the outer wall, C, and inner wall, C', into the bathing-chamber.

30 Between the walls are arranged, in any suitable manner, a row or series of gas-jets, C², for heating the bathing-chamber, and also for supplying heat to the boilers D D' D² D³, in this example placed in each corner of the bathing-chamber B', and having the gas-jets pass under them.

The heat from the gas-jets C² and the steam from the boilers D D' D² D³ supply the necessary hot air and steam to the bathing-chamber B', the steam and the heat arising into and permeating every part of the chamber B' from between the walls C and C', the space between the inner and outer walls forming a hot-air chamber or box for the heat and steam.

35 The boilers D D' D² D³ may be of any desired size or construction, and so arranged that they may be heated by gas-jets passing under them, as in this example, or by lamps, or in any other suitable way.

I would remark that under each door of the bathing-chamber the gas-jets are covered by a grating or covering, so that the horse or other animal can enter or leave the bathing-apartment without injury.

40 In suitable places, either in the bathing-chamber or the cooling-chamber, or both, are placed ventilating-shafts *e e* for regulating the temperature in the bathing-chamber, which are provided with suitable dampers or valves for that purpose, operated through openings, as at *e'*. (See Fig. 1.)

45 F is a ventilator extending across the upper portion of the bathing-chamber, with one end outside of the building or structure entirely and the other end opening into the cooling-chamber B. *o* is a partition closing it in the middle; *o'*, a trap-door allowing heat to pass outside of the chamber into the stable or open air, as at *o''*; and *o'''*, a similar trap-door, which allows the steam and heat to pass into the cooling-chamber at *o''''*, thus heating it without extra expense. Both of these traps are to be

operated from the outside by a cord and pulley or other similar means.

The lower part of the bathing-chamber B' forms a foot-bath, and is divided into three or more sectional portions or tubs, E E² E³, by means of partitions e' e'', each being provided with supply-water pipes d, faucet d', and suitable outlets, d². When the foot or hip bath is not to be used the tubs E' E² E³ may be covered or floored over by a suitable grating like that used on street-car floors.

In the upper portion of the bathing-chamber are constructed suitable water-tanks, G, one on each side, each having two rose-sprinklers or spray-cups, g g', which are to be used for the purpose of giving a shower-bath when necessary. The flow of water from these sprinklers may be controlled by any suitable device. I prefer, however, to use faucets so arranged that they may be operated by levers from the outside.

H is a drop blanket or cloth covering the space made when the upper portion of the door in the partition B² between the two chambers is opened. This drop blanket or cloth is raised and lowered by means of a cord passing over a pulley, J. One of these drop blankets or cloths may be arranged on each of the upper portions of the door, as in Fig. 1, and so constructed and arranged that they fit closely around the neck of the animal to be operated upon, thereby preventing the waste of heat and steam. In practice drop blankets or cloths are arranged over all the doors a a' a'', so that the animal while being treated may have his head passed through either door, as may be most convenient.

In applying the apparatus to use, the animal to be operated upon is brought into the bathing-chamber B through the door b², his feet being in the sectional tubs E and E³, and his head passed through the space left in the partition by opening the upper portion of the door a'. (not shown.) The drop blankets or cloths H are then lowered and secured closely and snugly around the animal's shoulders and neck, and the ventilating and air shafts being closed, the apartment is thereby made almost air-tight.

If it is desired to administer a hot-air or steam bath, the gas-jets are all lighted, the boilers heated, and the steam and heat, escaping from the boilers and burners, soon warm the bathing-chamber, which heating process is continued to any desired degree of intensity.

When it is desired to cool the bathing-chamber it is done by means of the vertical air shaft or shafts, or the horizontal ventilator arranged in the top of the bath-chamber, the heat or steam, one or both, escaping from the apartment altogether through the trap o', or into the cooling-chamber by the trap o³, leading therein, and thereby heating the said cooling-chamber.

In order to administer a shower-bath, the

water is turned into the bathing-chamber through the sprinklers g g' from the tanks G by means of suitable faucets.

If it is desired to use the foot or water bath, it is only necessary to turn the water into one or more of the sections E' E² E³ from the supply-pipe d through the faucets d' d'.

It is evident that the vapor or steam, shower, or foot baths may all be used at one time, or they may be used separately, as may be desired. Thus what is known as "Russian," "Turkish," "vapor," "shower," "foot," and "hip" baths may be administered to horses or other animals by my invention.

In some cases I use a strap or band (not shown) to support weak or sick animals while they are being treated.

I do not confine myself to the method of heating the bathing apartment by means of gas, as lamps or stoves may be employed in a similar manner.

Instead of using boilers to generate the steam, the steam may be generated entirely outside the bath and be conducted into the bathing apartment by means of suitable pipes.

Steam-pipes may also be conducted through the tanks G for the purpose of heating the water therein.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A stock-bath consisting of a cooling-chamber and bathing-chamber, the bathing-chamber constructed with double walls, having gas-jets and boilers arranged between the walls, and double doors provided with drop cloth or cloths on their upper part, and having suitable ventilators, substantially as and for the purpose specified.

2. The combination of the bathing-chamber constructed with double doors, having its lower part or floor made into sectional tubs, the water-supply pipe provided with faucets, and the waste-pipe, substantially as and for the purpose set forth.

3. The double doors a b, the top section, a, having a projection, c', and the bottom section, b, a corresponding recess, c, in combination with drop-cloths H and cord and pulley J, substantially as and for the purpose set forth.

4. A stock-bath consisting of a bathing-chamber provided with double doors, having drop cloth or cloths, with a water-tank provided with a suitable supply-pipe, and having rose-sprinklers, substantially as and for the purpose set forth.

5. In a stock-bath, the combination of the cooling-chamber and bathing-chamber, the bathing-chamber being constructed with double walls, having gas-jets arranged between the walls, double doors provided with drop cloth or cloths on their upper part, having suitable ventilating-shafts, with the sectional tubs in its lower part provided with supply

and waste pipes, and the water-tank provided with shower and spray sprinklers, substantially as and for the purpose set forth.

5 6. The ventilator extending entirely across the upper part of the bathing-chamber, having one end in the cooling-chamber and the other end entirely outside of the bathing-chamber, and provided with suitable discharge trap-

doors for regulating the temperature in the bathing-chamber, substantially as and for the purpose set forth.

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Witnesses:

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