

No. 749,542.

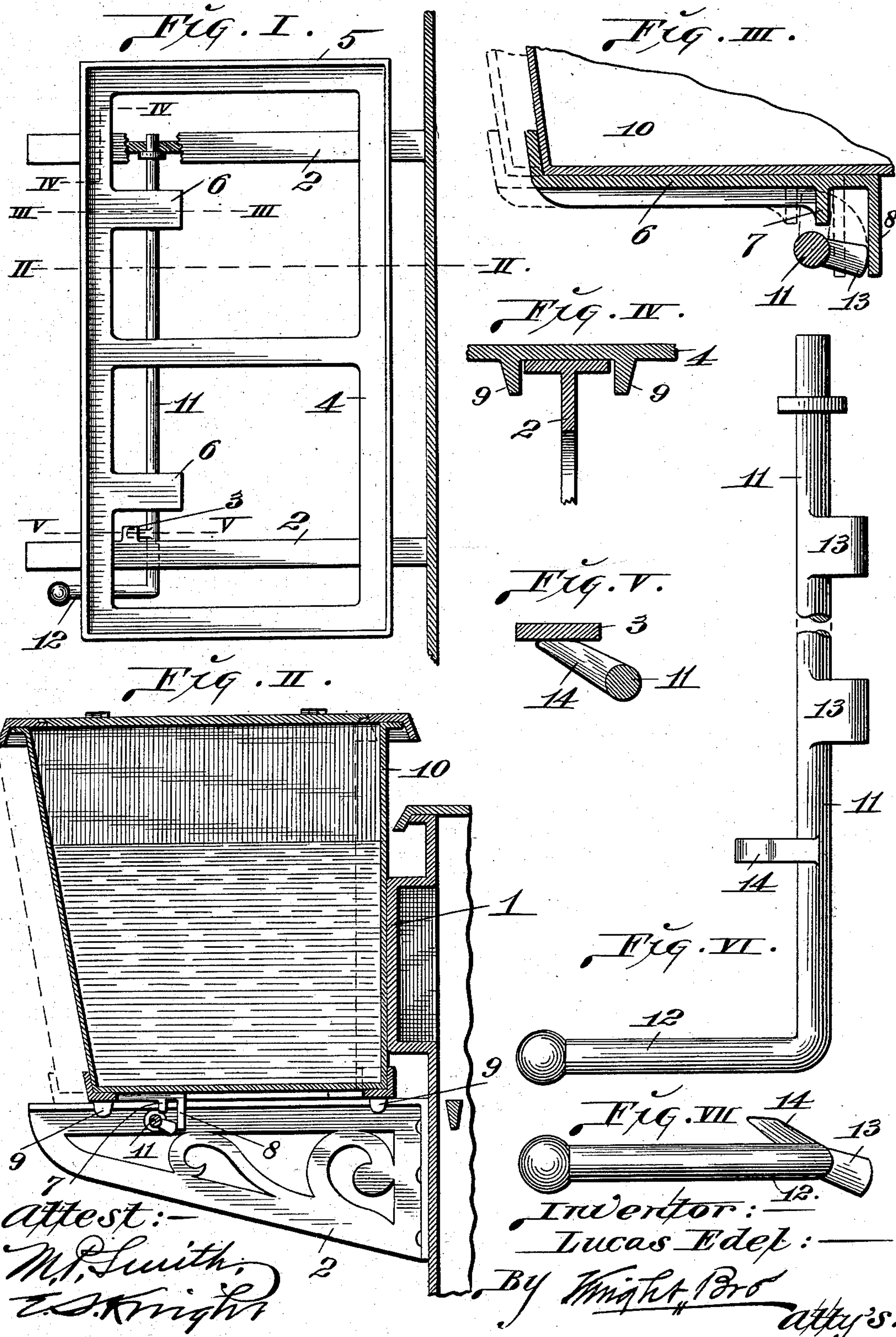
PATENTED JAN. 12, 1904.

L. EDEL.

ADJUSTABLE WATER TANK FOR STOVES OR RANGES.

APPLICATION FILED SEPT. 24, 1903.

NO MODEL.



UNITED STATES PATENT OFFICE.

LUCAS EDEL, OF ST. LOUIS, MISSOURI, ASSIGNOR TO MAJESTIC MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

ADJUSTABLE WATER-TANK FOR STOVES OR RANGES.

SPECIFICATION forming part of Letters Patent No. 749,542, dated January 12, 1904.

Application filed September 24, 1903. Serial No. 174,390. (No model.)

To all whom it may concern:

Be it known that I, LUCAS EDEL, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Adjustable Water-Tanks for Stoves or Ranges, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a means for shifting the water-tank used in connection with a stove or range and means whereby said tank is held firmly to the stove or range to prevent its lateral movement, such as would be occasioned by the boiling of the water in the tank, which acts to cause vibration of the tank and shift it away from the stove or range wall.

The improvement is particularly applicable to the tank construction shown in Letters Patent No. 640,106, dated December 26, 1899.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a top or plan view of the tank-carriage, its supports, and the means for shifting said carriage. Fig. II is a vertical cross-section taken on line II II, Fig. I, with the tank shown in position on its carriage. Fig. III is a cross-section taken on line III III, Fig. I, with a portion of the water-tank illustrated on the tank-carriage. Fig. IV is a section taken on line IV IV, Fig. I. Fig. V is a section taken on line V V, Fig. I. Fig. VI is a top view of the carriage-shifting rocker. Fig. VII is an end view of the rocker shown in Fig. VI.

1 designates the fireback of a stove or range, which preferably projects outwardly from the range-wall, as seen in Fig. I.

2 designates brackets secured to the wall of the stove or range at its exterior at or beneath the level of the bottom of the fire-box. Projecting inwardly from one of the sides of one of the brackets 2 is a lug 3. (See Figs. I and V.) The utility of this lug will hereinafter be mentioned. The brackets 2 have plain upper faces, and mounted upon them is a carriage 4, that is of skeleton form and is provided at its edge

with an upwardly-extending rim 5. Extending rearwardly from the forward portion of the carriage 4 are arms 6, which carry downwardly-projecting legs 7 and 8, the latter being rearmost and of the greatest length, as seen in Figs. II and III.

9 designates guide-lugs projecting downwardly from the carriage 4 at the sides of the brackets 2, which serve to direct the horizontal travel of the carriage as it is moved to and fro on said brackets.

10 is a water-tank seated on the carriage 4 within its rim 5 and adapted to be moved to the fireback 1 and shifted from said fireback whenever desired. It is sometimes desirable to shift the water-tank away from the fireback when the water therein gets to boiling too hard, and therefore I provide means through which the carriage may be moved horizontally on the brackets 2 to carry the tank away from and to the fireback. It is also sometimes desirable to retain the tank in a fixed position against the fireback to keep the water in a boiling condition, and in such case it is necessary to provide means for preventing shifting of the tank as a result of the vibrations imparted to the tank through the medium of the boiling, and consequently agitated, water. In this connection it should be stated that the boiling water in its agitated state constantly shakes the water-tank in which it is contained, and the jarring action thus produced causes the tank to vibrate against the fireback.

11 designates a rocker journaled in the brackets 2 and provided at one end with a crank-handle 12. This rocker bears a pair of arms 13, one of which is adapted to operate in connection with one pair of the legs 7 and 8, depending from the carriage-arms 6, and the other of which operates in connection with the other pair of said legs 7 and 8.

14 is a finger projecting from the rocker 11 at an angle to the projection of the arms 13. This finger is adapted for engagement with the lug 3, that projects from one of the brackets 2, as stated. This finger 14 is so positioned with reference to the arms 13 that it will permit only sufficient rotation of the rocker 11 to carry said arms past a horizontal line

drawn through the axis of the rocker in order that when said arms are moved into bearing with the rear legs 8 of the carriage and rocked downwardly they will pass the dead-center of the rocker, as illustrated in Figs. II and III, and therefore remain in a fixed position at such point to hold the tank-carriage from horizontal movement. When the parts are in such position, the water-tank is held into firm contact with the fireback, and displacement of the tank-carriage is impossible until the rocker 11 is again rotated to carry the arms 13 upwardly and into engagement with the forward carriage-legs 7 to act there-against and shift the tank-carriage outwardly in a direction away from the fireback of the stove or range.

I claim as my invention—

1. The combination with tank-supporting brackets, of a carriage reciprocally mounted on said brackets, legs depending from said carriage, a rocker journaled in said brackets,

and arms carried by said rocker arranged to engage said legs and hold said carriage from movement when the arms are thrown into a position beyond the horizontal dead-center of said rocker, substantially as set forth.

2. The combination with tank-supporting brackets, of a carriage reciprocally mounted on said brackets, legs depending from said carriage, a rocker journaled in said brackets, arms carried by said rocker arranged to engage said legs and hold said carriage from movement when the arms are thrown into a position beyond the horizontal dead-center of said rocker, and a finger projecting from said rocker to engage one of said supporting-brackets and limit the throw of said rocker, substantially as set forth.

LUCAS EDEL.

In presence of—

NELLIE V. ALEXANDER,
E. S. KNIGHT.