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INVENTOR: INVENTOR: BY Edmunds BY Munde ATTORNEYS.

N. PETERS, Photo-Lithographer, Washington, D. C.

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## UNITED STATES PATENT OFFICE.

JOHN M. EDMUNDS, OF SALT LAKE CITY, UTAH TERRITORY, ASSIGNOR TO HIMSELF AND GOVERNEUR M. FORBES, OF SAME PLACE.

## SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 256,657, dated April 18, 1882.

To all whom it may concern:

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Beitknown that I, JOHN MARION EDMUNDS, of Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented a new 5 and Improved Sad-Iron, of which the following is a specification.

The subject of my invention is a steam-heatinto the lower part of the hollow handle P and passed down to the top E of the lower chamed sad-iron in which the steam is generated by means of a lamp that is supplied with oil ber, A, and along the same to a lamp, V, con-10 or burning-fluid from a reservoir formed in the tained in a recess, W, in the top E of the lower handle; and my invention consists, first, in chamber. This lamp is provided with some 60 suitable burner, Y. having the body of the iron made in two separate hollow parts, arranged one above the The operation is as follows: The upper chamother, connected by intercommunicating tubes, ber, C, is filled with water almost to the top of 15 and constituting water and steam chambers, the tubes D, and the screw-cap K is screwed firmly into the vent J. The hollow handle P 65 respectively, the tubes projecting upward inis filled with oil, alcohol, or some other suitaside the water-chamber to near the top thereof; and, second, in combining with the aforeble burning-liquid, and the cock U is opened said parts a receptacle for a lamp, all as will more or less to allow the liquid to pass from 20 be hereinafter explained. the hollow handle P through the tube T in such quantities as the lamp V may require. 70 In the accompanying drawings, Figure 1 is a longitudinal sectional elevation of my im-The wick of the lamp is ignited and heats the proved sad-iron on the line x x, Fig. 2. Fig. 2 is water in the chamber C, and this water is cona plan view of the same on the line yy of Fig. 1. verted into steam, which passes through the 25 The sad-iron is composed of a lower chamtubes D D, as indicated by the arrows, into ber,  $\Lambda$ , the bottom B of which is the smooththe lower chamber, A, and heats the same in 75 a very short time. The condensation-water ing-surface of the sad-iron, and of an upper compartment, C, connected with the lower collects in the chamber A. If the pressure of chamber, A, by a series of tubes, D, screwed the steam in the chambers rises above a cer-30 into the top E of the same, and also screwed tain degree, it will burst the metal plate M of into the bottom F of the upper chamber, C, the safety-valve L, and escapes through the 80 and extending almost to the top H of the same, vent O of the nut N. A fresh plate, M, must or above the water-line, so that only steam then be fastened on the end of the tabe L. This sad-iron can be heated very rapidly. It will escape to the steam - chamber below. 35 This upper chamber is provided on its top does not soil the articles that are ironed nor with a vent, J, for pouring water or other fluid the hands of the operator, as it does not come 85 in contact with a stove or grate. It is very into this chamber, which vent is closed by means of a screw-cap, K. This upper chameconomical, as no heat is wasted, as is the case ber is provided with a safety-valve, L, projectif the irons are heated on a stove. If the con-40 ing from the side and consisting of an exterdensation-water is to be removed from the nally-threaded tube, which is screwed into the chamber A, the screw Z and the top E of the 90 wall of the chamber, and upon the outer end | lower compartment, A, are removed. The liqof which tube a thin plate, M, of metal, prefuid in the hollow handle P keeps the same cool. erably copper, is placed and is held thereon Having thus described my invention, I claim 45 by a cap, N, with a central orifice, O. The as new and desire to secure by Letters Patentsafety-valve projects from the side of the cham-1. In a steam-heated sad-iron, the water- 95 ber C, so that the escaping steam cannot scald chamber C, supported above and connected to the hands of the operator. A hollow handle, the steam-chamber A, which forms the bottom P, provided with solid shanks Q Q, is secured | of the iron, by screw-threaded tubes D D pass-

to the top H of the upper chamber, C, and this 50 hollow part of the handle is provided with a vent, R, for admitting oil or other suitable burning-fluid into the same, and this vent is closed by means of a screw-cap, S. A tube, T, provided with a regulating-cock, U, is screwed 55

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ing through an intermediate heating - space | and projecting inside the chamber O to near the top thereof, whereby only steam is allowed to escape into the steam-chamber, as and for 5 the purpose specified.

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2. The steam-chamber A, provided with a recess, W, formed in its top plate to receive a lamp, V, in combination with the water-cham-

ber C and tubes D, the latter being arranged one near the nose and the other two near the 10 heel of the iron, as and for the purpose specified.

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J. M. EDMUNDS.
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Witnesses:

A. M. MUSSER, Jr., G. M. FORBES.

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