

No. 819,596.

PATENTED MAY 1, 1906.

R. REISTER.
HYDRAULIC CONDENSER.
APPLICATION FILED SEPT. 15, 1905.

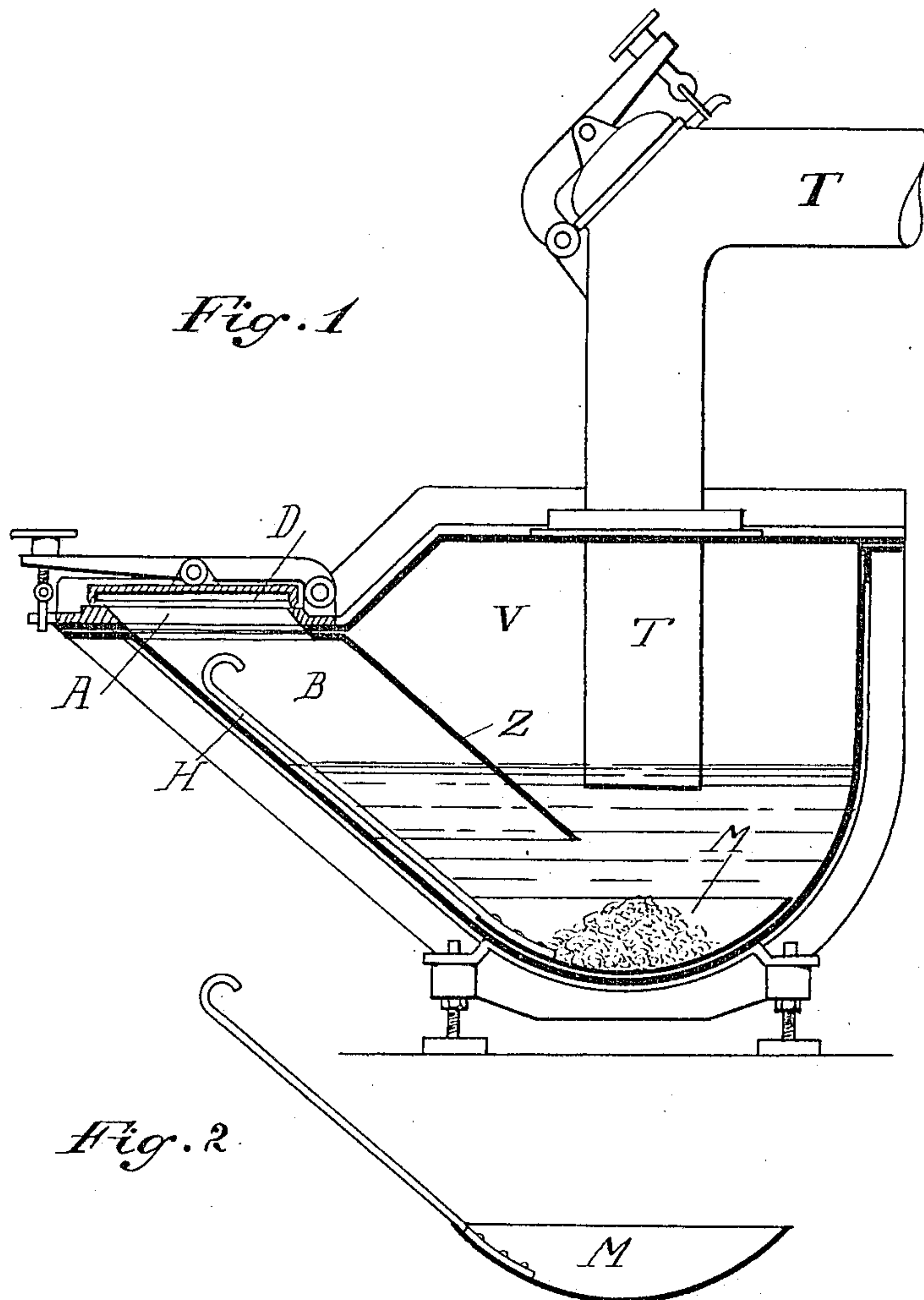


Fig. 2

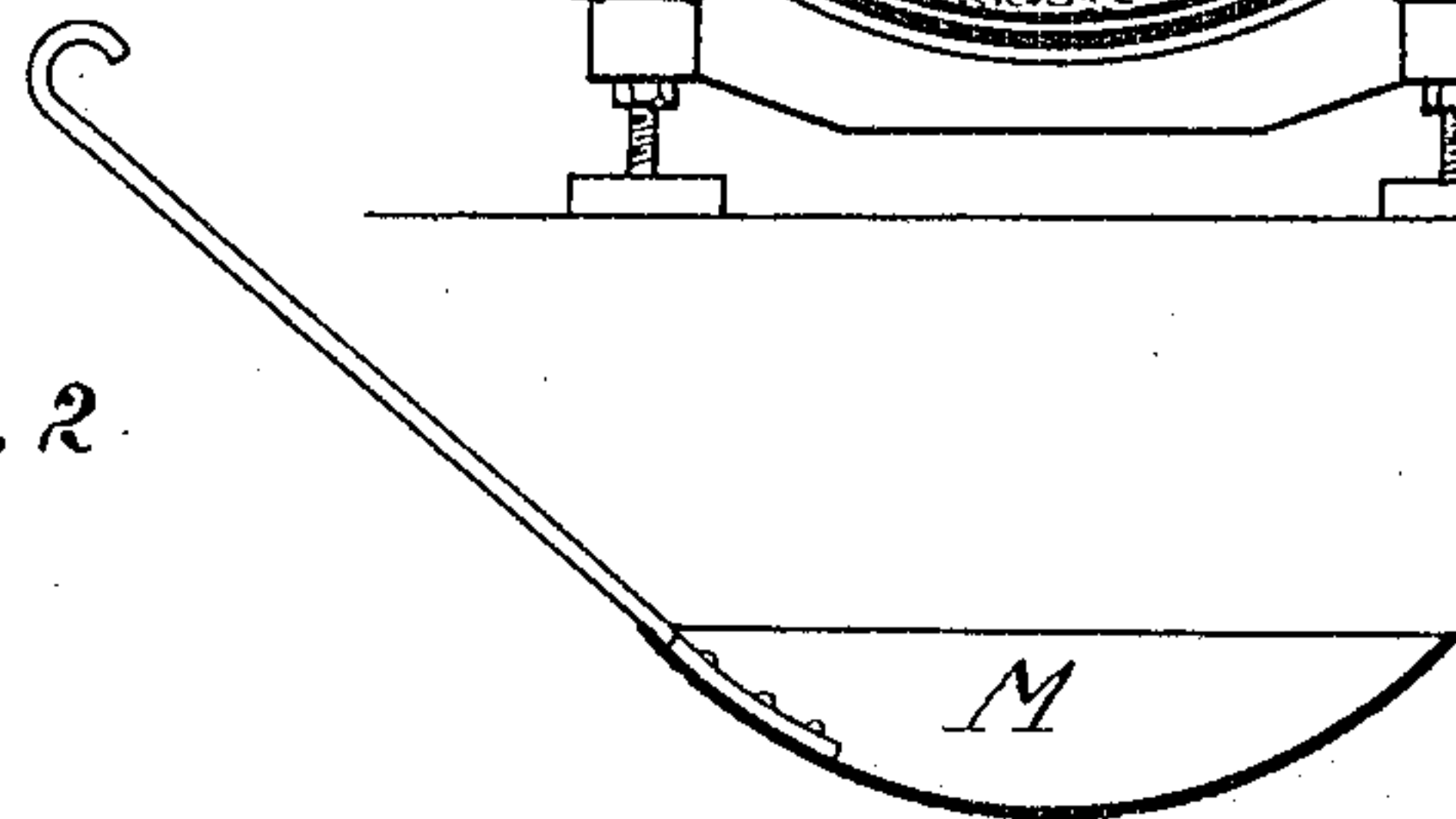
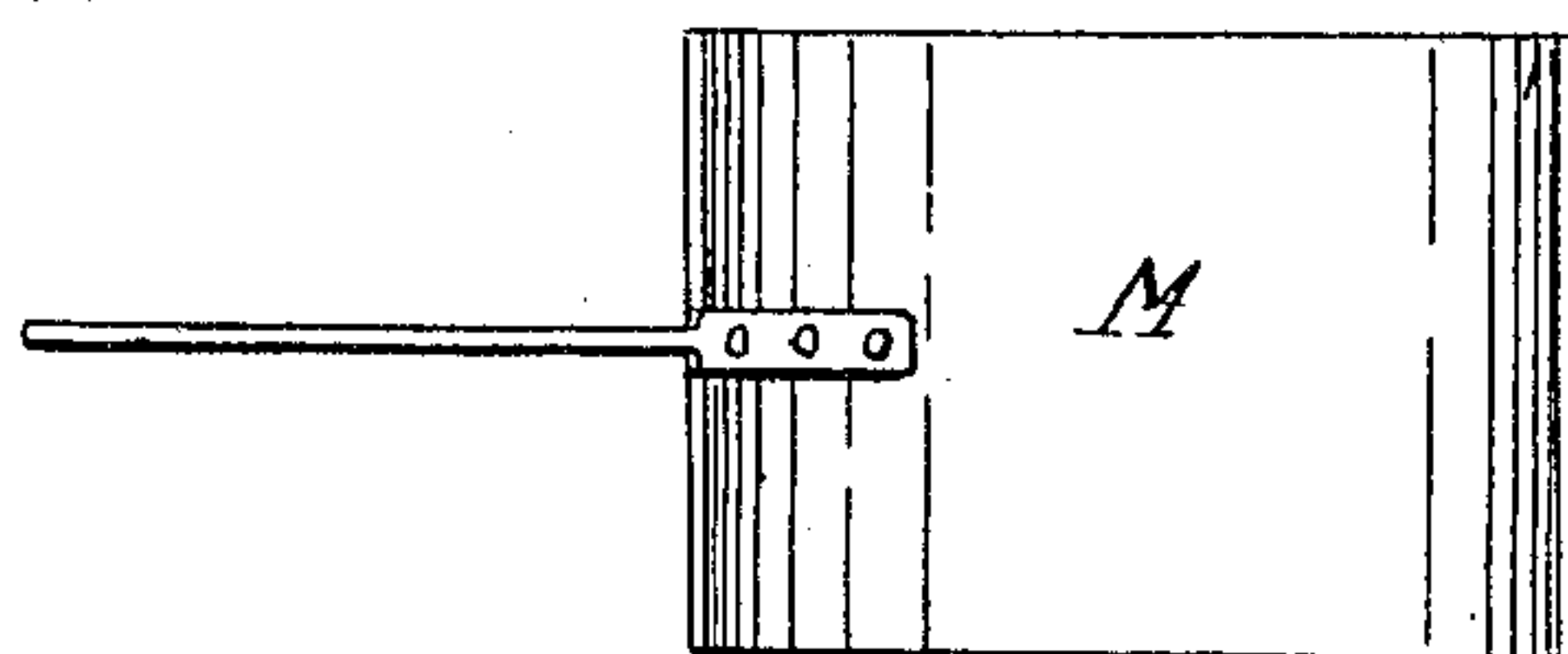


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT REISTER, OF DESSAU, GERMANY.

HYDRAULIC CONDENSER.

No. 819,596.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed September 15, 1905. Serial No. 278,644.

To all whom it may concern:

Be it known that I, ROBERT REISTER, a subject of the German Emperor, and a resident of Dessau, Germany, have invented certain new and useful Improvements in Hydraulic Condensers, of which the following is a specification.

In the manufacture of illuminating-gas very many and most annoying disturbances in the management of the gas-producing apparatus are occasioned by the tough pitch which collects on the bottom of the hydraulic condenser, and on being carried along with the warm tar to the outlet it frequently accumulates there and entirely stops the passage of the tar. It also can be removed only with difficulty.

My invention relates to improvements in hydraulic condensers of the kind described whereby the said inconveniences are entirely avoided.

The objects of my improvement are, first, to provide the hydraulic condenser with a longitudinal sealing-wall to form a separate chamber; second, to provide the top of this separate chamber with a series of rectangular apertures and covers corresponding in number to the several retorts, and, third, to provide a plurality of handled rectangular scoops which can be introduced through the apertures and placed on the bottom of the hydraulic condenser beneath the several drip-tubes for collecting the pitch, so that when filled they may be withdrawn from time to time and replaced by empty ones. I attain these objects by the hydraulic condenser illustrated in the accompanying drawings, in which—

Figure 1 is a vertical cross-section through the hydraulic condenser. Fig. 2 is a vertical longitudinal section through a scoop in the same cross-plane as in Fig. 1, and Fig. 3 is a plan of the same.

Similar letters of reference refer to similar parts throughout the several views.

V is a hydraulic condenser of a well-known construction in which the lower ends of the series of drip-tubes T are hermetically sealed with a liquid, as usual. Preferably the front wall (on the left in Fig. 1) of the condenser is inclined, and parallel to it a sealing-wall Z is disposed which extends over the whole length of the condenser V and preferably dips a little deeper in the liquid than the tubes T. Thus a separate inclined chamber B is formed in the top of which a series of

rectangular apertures A is disposed close together. These apertures A correspond to the several tubes T (or the retorts) and are arranged in the same central planes as the latter. Covers D of any known and approved construction serve for closing the apertures A. A corresponding number of rectangular scoops M can be introduced through the apertures A and placed on the bottom of the condenser V beneath the several tubes T. Preferably these scoops M are made to fit the bottom of the condenser V and are made as wide as possible, so as to leave little space between the sides of two neighboring scoops. Each scoop M is provided with a convenient handle H, which is so shaped that it rests on the inclined wall of the condenser V, or nearly so, and that it can be easily seized. It will be seen that it is possible to open any cover D and to so introduce a handled scoop M through the aperture A as to place it beneath the tube T in its vertical central plane.

During the operation of the gas-producing apparatus the pitch will drip from each tube T into the scoop M below such tube and there accumulate, as is clearly shown at Fig. 1, while it is prevented by the sides of the scoop M from flowing into the spaces between the scoops. Thus the pitch cannot be carried along with the warm tar to the outlet and accumulate there and cause stoppage of the work. From time to time the several filled scoops M can be withdrawn through the apertures A after opening the covers D and replaced by empty scoops. In this manner the pitch can be removed in an easy and safe manner from the hydraulic condenser without disturbing the work of the gas-producing apparatus.

The hydraulic condenser with the removable scoops may be varied without departing from the spirit of my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A hydraulic condenser for the manufacture of illuminating-gas, having an aperture in the top thereof, in combination with a scoop adapted to be introduced through such aperture and be placed beneath the drip-tube for collecting the pitch dropping therefrom.

2. A hydraulic condenser for the manufacture of illuminating-gas, which is provided with a longitudinal sealing-wall to form a separate chamber and with an aperture in

the top of said separate chamber, in combination with a scoop adapted to be introduced through said aperture and to be placed beneath the drip-tube for collecting the dropping pitch, and a cover adapted to open and to close said aperture.

3. A hydraulic condenser for the manufacture of illuminating-gas, which is provided with a front inclined wall, a longitudinal sealing-wall parallel to this front inclined wall, and forming a separate chamber, and a rectangular aperture in the top of this separate chamber, in combination with a handled scoop which can be introduced through the rectangular aperture and placed on the bottom of said hydraulic condenser directly beneath the drip-tube for collecting the pitch dropping therefrom.

4. The combination with a hydraulic condenser for the manufacture of illuminating-

gas having a front inclined wall, of a longitudinal sealing-wall in said hydraulic condenser and parallel to its front inclined wall, whereby a separate chamber is formed, a rectangular aperture in the top of said separate chamber and arranged in the central plane of the drip-tube, a cover for said rectangular aperture, and a handled rectangular scoop fitting the bottom of said hydraulic condenser and adapted to be introduced through the rectangular aperture and be placed beneath the drip-tube for collecting the dropping pitch.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT REISTER.

Witnesses:

JULIUS BUEB,
FRANZ SCHAEFER.