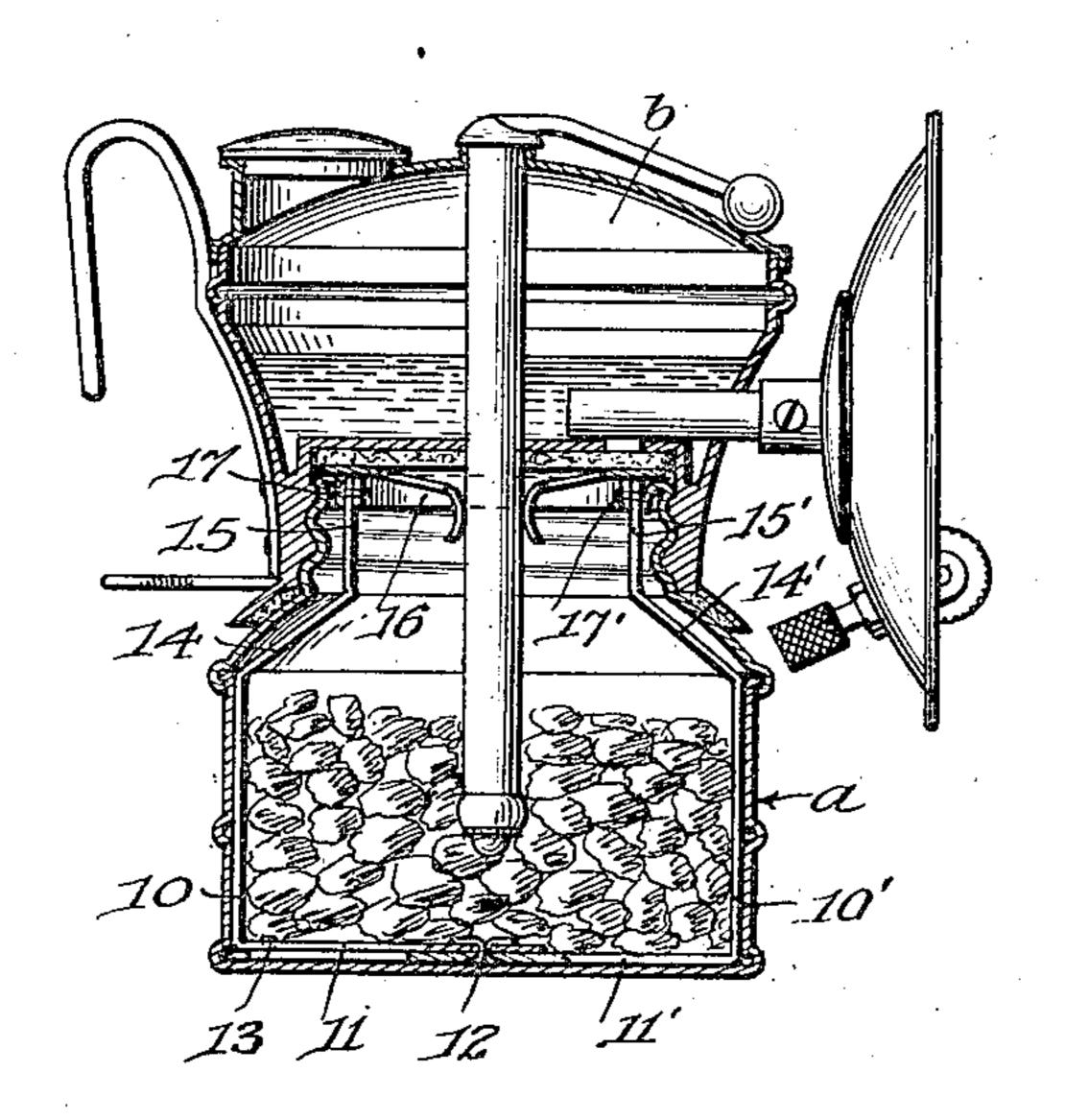
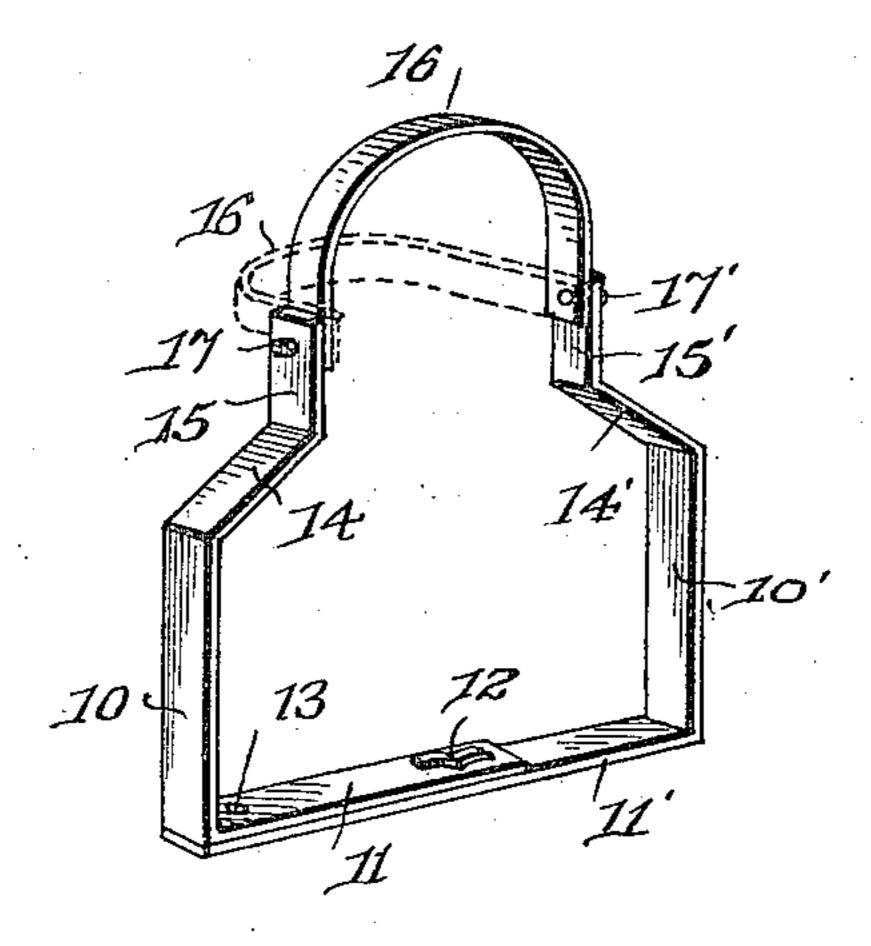
G. DATE

Filed May

1922





Goichi Date.

STATES PATENT OFFICE.

GOICHI DATE, OF SUBLET, WYOMING.

ATTACHMENT FOR MINERS' LAMPS.

Application filed May 31, 1922. Scrial No. 564,782.

To all whom it may concern:

Be it known that I, Goichi Date, a citicounty of Lincoln and State of Wyoming, 5 have invented certain new and useful Im- of the water container portion b. All of the provements in Attachments for Miners' Lamps, of which the following is a specification.

This invention appertains to certain im-10 provements in miners' lamps and the like frame fitted into the carbide container α , provide for a novel form of attachment for that type of such lamps employing carbide as the gas generating fuel thereof whereby 15 the used carbide residue of the lamp may be easily and readily displaced from the container thereof for the recharging of the latter with a fresh supply of the carbide.

Another object of the invention is to pro-20 vide for an attachment of the class mentioned, and one capable of being readily placed in or removed from its operative position within the carbide container portion 25 of a design to be extremely easy to operate relation with respect to the portion 11' terior walls of the container.

35 manufacture.

40 be hereinafter more fully described, set tended purposes. For the insertion of the forth in the appended claims, and illustrat- attachment within, or its removal from ed in the accompanying drawing, in operative position within the carbide conwhich:—

45 conventional form of carbide lamp and parts 11 and 11' may be swung on the pivot showing a preferred embodiment of the at- 12 to positions one adjacent to the other tachment as installed within the carbide for such purpose. container portion thereof, and,

tachment per se.

b the upper water containing portion there-threaded neck portion thereof. At the upof, superposed on the container portion a. per ends of the inclined portions 14 and 14',

The upper open end of the carbide container a is of a reduced diameter and is screw zen of Japan, residing at Sublet, in the threaded into engagement with the complementally threaded lower open end portion 60 foregoing structure is of usual form and not constituting any part of the subject matter of the present invention.

The attachment is in the form of a metal 65 generally, and has for its principal object to whereby, upon having turning movements imparted thereto, the several members of the frame will effectively scrape the side and bottom walls of the container a in a 70 manner to clear the same of any and all portions of moist carbide and hardened incrustations thereof, when it is desired or necessary to recharge the container with fresh carbide. The preferred embodiment 75 of this frame comprises two strips of metal 10 and 10' having their lower ends bent at right-angles to provide horizontally disposed portions 11 and 11', respectively, the of a miner's lamp or the like, and which is portion 11 being arranged in overlapping 80 for the effective freeing of any and all ad- which is of a length merely equal to that of hering portions of moistened or used car- the diameter of the carbide container a bide, or incrustations thereof, from the ex- while the portion 11 is only of a length to extend slightly beyond the transverse cen- 85 A further object of the invention is to ter of the portion 11', where it is secured provide for a device of the character set to the latter for pivotal movements with forth, and one of an extremely durable but respect thereto by means of a rivet or the simple construction and arrangement, high- like 12. Immediately inward of the free ly efficient in operation, and inexpensive to end of the portion 11', the same is provided 90 with an upstanding stud 13 which engages With the foregoing, and other equally in an opening formed in the portion 11, important objects in view, the invention re- whereby relative movements between the sides in the certain novel and useful con- two parts of the frame is prevented during struction and arrangement of parts as will the operation of the attachment for its in- 95 tainer a, the opening of the part 11 will be Figure 1 is a vertical section through a disengaged from the stud 13, when the two 100

The upper ends of the vertical portions of Figure 2 is a perspective view of the at- the frame members 11 and 11' are inwardly 105 and angularly bent to provide oppositely Referring to the drawing, the reference inclined intermediate portions 14 and 14, character a designates the lower carbide which conform somewhat to the inwardly container portion, of a miner's lamp or inclined portion or wall of the carbide conother similar type of carbide gas lamp, and tainer a immediately below the screw 110

the free ends of the same are angularly bent to provide vertically extending portions 15 and 15', which project upwardly in the opposite sides of the reduced neck portion and 5 have attached to the upper ends thereof an operating bail 16. This bail 16 is of substantially semi-circular form having its opposite ends pivoted in position by means of pivot pins 17 and 17' engaged in openings 10 formed in the vertical portions 15 and 15',

respectively.

In the use of the device as thus construct-20 vices, with the bail 16 of the attachment jects the shorter horizontal leg. swung to horizontal position within the con- 3. A scraper device for the carbide cham-When the gas generating qualities of the a frame formed of a pair of oppositely dis-80 25 wise unsuited for the further generation of and a vertical leg, each of said vertical legs 30 bide, the container a will be detached from er portion of said vertical legs, said horizonsition for the ready imparting thereto, and nected to the vertical parts of the inset up-35 consequently to the scraper frame, of a turn-per portions of said vertical legs. ing movement or movements which will result in the freeing from the interior walls of the container b of any and all adhering portions of the used or exhausted carbide so that the same may be readily discharged or removed therefrom.

illustrated herein in specific terms and details of construction and arrangement, various changes in and modifications of the same may be resorted to without departing from the spirit of the invention, or the scope of

50 the claims appended hereto.

Having thus fully described the invention,

what is claimed, is:—

ber of acetylene gas generators comprising zontal legs. 55 a frame formed of a pair of oppositely disposed sections, each including a horizontal hereto. and a vertical leg, said vertical legs con-

forming to the shape of the carbide chamber and said horizontal legs arranged in superposed relation and detachably connected to- 60 gether, and a handle element in the form of a bail pivotally connected to the upper ends

of said vertical legs.

2. A scraper device for the carbide chamber of acetylene gas generators comprising 65 a frame formed of a pair of oppositely disposed sections, each including a horizontal and a vertical leg, said vertical legs conforming to the shape of the carbide chamber ed and arranged, the same is positioned and said horizontal legs arranged in super- 70 within the carbide container a, prior to the posed relation and detachably connected to-15 placing therein of a charge of carbide. gether, and a handle element in the form of After the carbide charge has been placed a bail pivotally connected to the upper ends within the container b, the latter will be of said vertical legs, one of said horizontal screwed on to the lower end of the water legs of greater length than the other and ex- 75 container a in the usual manner of these detending to the vertical leg from which pro-

fines of the neck portion of the container. ber of acetylene gas generators comprising carbide charge have become poor or other- posed sections each including a horizontal gas, through the the moistening of the same having its upper portion inset to provide an by water from the water container b, and inwardly extending and upwardly inclined it is desired or necessary to place within the part terminating in a vertically disposed 85 lower container a a fresh charge of the car-part extending in a plane parallel to the lowthe upper container b, and the bail 16 tallegs arranged in superposed relation and grasped in the fingers of the user of the detachably connected together, and a handle lamp, and will be swung to its vertical po- element in the form of a bail pivotally con-

4. A scraper device for the carbide chamber of acetylene gas generators comprising a frame formed of a pair of oppositely dis- 95 posed sections each including a horizontal and a vertical leg, each of said vertical legs having its upper portion inset to provide an From the foregoing, it will be readily un- inwardly extending and upwardly inclined derstood that, while a preferred embodiment part terminating in a vertically disposed 100 of the attachment has been described and part extending in a plane parallel to the lower portion of said vertical legs, said horizontal legs arranged in superposed relation and detachably connected together, and a handle element in the form of a bail pivot- 105 ally connected to the vertical parts of the inset upper portions of said vertical legs, one of said horizontal legs of greater length than the other and extending to that verti-1. A scraper device for the carbide cham- cal leg from which extends the shorter hori-

In testimony whereof, I affix my signature

GOICHI DATE.