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(54) **PHOTOGRAPHIC FLASH LAMP**

(54) **LAMPE A JET DE LUMIERE PHOTOGRAPHIQUE**

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My invention relates to improvements in Photographic Flash Lamps, and the object of the invention is to devise a lamp and hood therefor, which will enable a photographer to take a flash light picture without allowing the smoke from the burnt flash powder to escape into the room, and at the same time soften the light from the flash, so as to produce a soft artistic negative, and it consists essentially of a bag substantially rectangular in form and supported on bars and having a collapsible bottom, a stand for such bag detachably held together at or near the centre of the upper portion and a lamp detachably connected to the stand and extending well into the bag, the front of the bag being made of a semi-transparent material such as tracing cloth and the parts being otherwise constructed and arranged in detail as hereinafter more

particularly explained.

Fig. 1, is a perspective of my improved flash lamp and bag therefor.

Fig. 2, is a vertical section.

Fig. 3, is a detail of the flash lamp.

Fig. 4, is a detail showing a detachable connection of the bag and bag support to the upper portion of the stand.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is a vertical tubular standard, which is supported by the legs B pivotally connected at the top to a ring a on the stand A and by screws a¹ and at the bottom by the braces b, which are pivotally connected to the legs and to a ring a². The ring a is slidably held on the tubular standard A, so that by adjusting it upwardly on the standard the legs B may be folded close to the standard.

A¹ and A² are telescopic upward extensions of the standard A, such extensions being secure in any position to which they may be adjusted by set screws a³. a⁴ is a backwardly extending bar attached to the top of the portion A² of the standard by means of a projecting pin a⁵ secured to the bar and extending into the top of the portion A². The back of the bar a⁴ has an upwardly extending sleeve a⁶ secured thereto.

A⁵ is a tubular standard, which fits on such sleeve a⁶. A⁶ is a sleeve provided with a hook a⁶. a⁷ is a plug fitting into the top of the portion A⁶ and having a pin A³ extending therefrom. A⁵ is a tubular extension of the standard A⁶, which fits over the plug a⁷ and is provided with a notch a² fitting over the pin A³, so as to ~~max~~ prevent it from turning.

B is a bar having secured to the back end a depending plug b, which fits within the tubular standard A⁷. The bar B has front and rear depending hooks b¹ and b².

C is a canvas bag, which is provided with transparent front

C¹, which is preferably made of tracing cloth or other suitable semi-transparent material. The canvas bag C is treated with sulphide of barium or any other suitable fire proofing composition, so as to render it fire proof and is substantially rectangular in form being held in such form by means of the front and top back parts c and c¹ connected to the eyes or hooks b¹ and b² by the eyes c² and c³ extending through the canvas of the bag.

The bottom of the bag is open, so as to allow of explosion and is provided with a running cord D in order to draw it together to prevent the smoke escaping after the flash has taken place. The back of the bag is also provided with a cross bar c⁴ having attached thereto a ring c⁵. The hook a⁶ hereinbefore referred to serves to hold the back in rectangular form at the back above the bar a⁴, such hook extending into the ring c⁵.

E is a rectangular plate securely fastened to the back of the bag around the opening therein and provided with a hinge flap e, so as to close the same after the explosion has taken place.

F is the lamp, which is provided with the usual burner f and a right angular bracket F¹ secured to the top of the same as indicated and provided with a clip f¹, whereby it is secured around the bar. The front end of the right angular bracket has an opening from which extends a tube F² on which is supported the tray G, which is provided at the back with a flange g to fit over the edge of the opening of the plate E when the lamp is inserted in position.

The tray is hollow at the back and is open at the front to admit of the placing of the flash powder and gun cotton for igniting the same. H is a flexible tube extending through the bracket F¹ and provided at the lower end with a bulb.

When the lamp is lighted and the powder is placed on the

front trap G by compressing the bulb the flame is directed through the tube P² on to the gun cotton and thereby produce the flash in the usual manner. As soon as the flash is produced the lamp is immediately pressed inwardly against the canvas, so as to unfasten the clip F¹ from the standard A⁶ and the lamp may be withdrawn, the hinged cover e falling down and closing the opening in the plate E. Simultaneously the bottom of the bag is drawn together by the cord D. The bag may be now detachably connected by withdrawing the portion A⁷ from the portion A⁶, the hook a⁶ from the ring c⁵ and the bag may be removed outside of the room or apartment where the flash has taken place and the smoke discharged therefrom in any suitable manner.

From this description it will be seen that I provide a simple arrangement for a flash lamp whereby all smoke is prevented from escaping into the room. As the bag is readily detachable it will be seen that it may be quickly removed from the room and the smoke discharged therefrom preparatory to making another flash for making a photo.

WHAT I CLAIM AS MY INVENTION IS:

1. In a flash lamp, the combination with the lamp and supporting standard, of a hood of flexible fire proof material located outside the standard and into which the tray of the flash lamp extends as and for the purpose specified.
2. In a flash lamp, the combination with the lamp and supporting standard, of a hood of flexible fire proof material into which the tray of the flash lamp extends, and an open bottom provided with means for collapsing the same as and for the purpose specified.
3. In a flash lamp, the combination with the lamp and supporting standard, of a hood of flexible fire proof material into which the tray of the flash lamp extends and an open bottom provided with a running cord for collapsing the same as and for the purpose specified.
4. The combination with a suitable supporting standard and the lamp supported thereon, of an upper bar secured to the top of the standard, bars extending through the top of the bag at the front and back and means connecting the cross bars in the bag to the top bar of the standard as and for the purpose specified.

5. The combination with the flash lamp and suitable support therefor and the bag into which the tray of the lamp extends formed of fire proof material and located to the front and outside the standard, of a semi-transparent front for the bag as and for the purpose specified.

6. The combination with the standard and rearwardly extending bar secured to the top of the same and the upwardly extending portion secured to the back of the bar and provided at the top with a plug, of the adjustable upper portion fitting on to the plug and provided with a forwardly extending bar and the bag having the cross bars extending through the top of the same at the front and back and means connecting such bars to the forwardly extending bar as and for the purpose specified.

7. The combination with the standard and rearwardly extending bar secured to the top of the same and the upwardly extending portion secured to the back of the bar and provided at the top with a plug, of the adjustable upper portion fitting on to the plug and provided with a forwardly extending bar, and the bag having the crossbars extending through the top of the same at the front and back, a cross bar extending through the back of the bag, a ring connected to the same and a sleeve fitting on the back of the upwardly extending portion attached to the rearwardly extending bar of the standard and provided with a hook as and for the purpose specified.

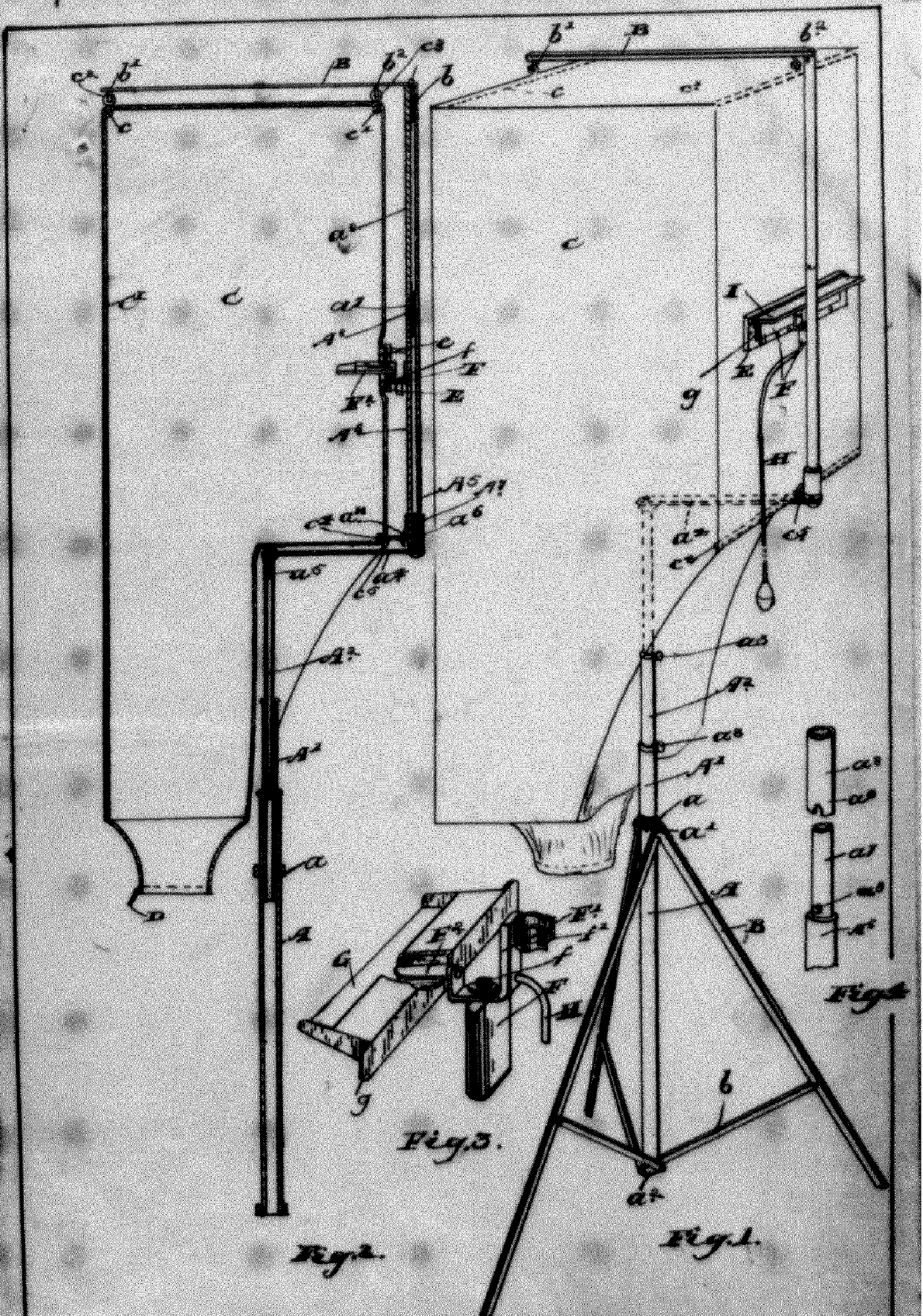
James L. Lupton

Signed at Toronto, this 1st 1st day of March, 1904.

In the presence of:

M. M. Laren

C. H. B. B.



Certified to be the Drawings referred to in the Specification hereto annexed.

Witness
 C. B. Matthews
 J. P. Holmes,

Notary Public, 22 1009

Inventor.
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