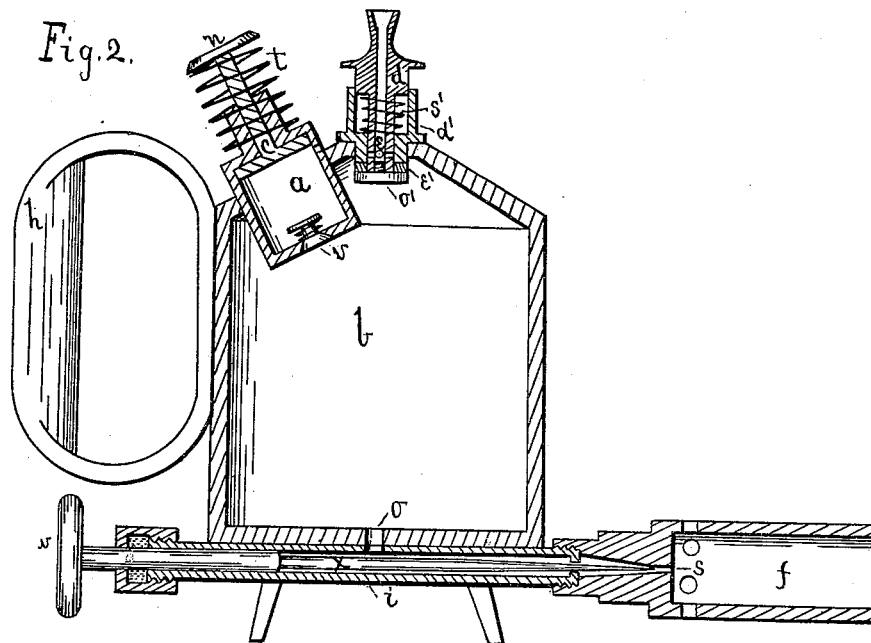
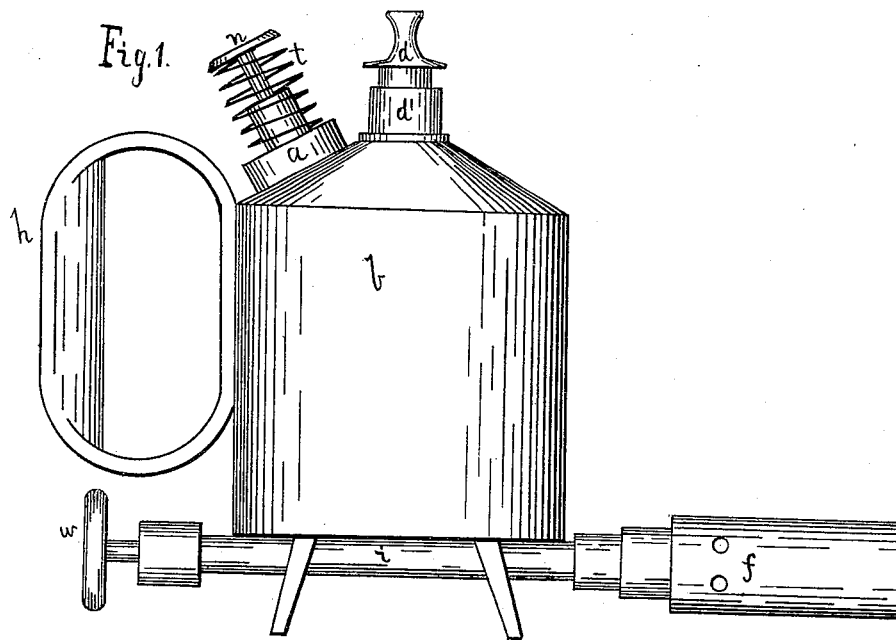


(No Model.)

J. A. FELT.  
PAINT BURNER.

No. 265,253.

Patented Oct. 3, 1882.



Witnesses  
Geo. F. Robinson  
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# UNITED STATES PATENT OFFICE.

JOHN A. FELT, OF KENT, OHIO.

## PAINT-BURNER.

SPECIFICATION forming part of Letters Patent No. 265,253, dated October 3, 1882.

Application filed July 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. FELT, of Kent, Portage county, Ohio, have invented a new and useful Improvement in Paint-Burners, of which the following is a specification.

My invention relates to that class of paint-burners in which gasoline is used under pressure in burning paint on furniture, railroad-cars, and other vehicles to allow it to be easily removed by scraping it off. Alcohol has generally been used for this purpose, as it produces the intense heat that is required, but is much more expensive than gasoline. My burner accomplishes the same purpose by means of compressing air in the upper part of the vessel containing gasoline, which forces the fluid through a small opening into the burner, the opening being regulated and closed, when required, by a needle, which may be made to extend through or beyond the opening to clear it of obstructions when necessary.

In the drawings forming a part of this specification, Figure 1 is a side elevation, and Fig. 2 is a vertical section.

The vessel *b* contains the gasoline, and is formed with a suitable handle, *h*. In the top of vessel *b* is situated an air-pump, *a*, in such a position that it may be conveniently operated by the thumb of the operator's hand, which grasps the handle *h*. The air-pump *a* has the valve *v* and the piston *c*, with a spring, *t*, on its rod to force up the piston. On the upper end of the piston-rod is a button, *n*, which is to be pressed down by the thumb to force air into vessel *b*. The top of vessel *b* is also provided with a tubular sliding valve, *d*, shaped suitably for a mouth-piece at its upper end, through which air may be blown into vessel *b*, when the valve is pressed down till its holes *e*, for the passage of air into vessel *b*, are below the casing or sleeve *d'*. The lower end of valve *d* is closed by a flanged cap, *o'*, on which rests a packing-ring, *e'*. Valve *d* is shouldered at the upper end of spring *s'*, which is placed around the valve in casing *d'*, to close the valve by forcing it up till packing-ring *e'* is in contact with the lower end of casing *d'*. Spring *s'* is light, so that the mouth of the operator, when applied to the upper end of valve *d*, may easily open the valve by pressing

it down, and as soon as sufficient air is blown into vessel *b* and the operator's mouth withdrawn from the valve the spring forces up and closes the valve.

When but little pressure is required on the gasoline in vessel *b* the operator may use valve *d*, and when it is desired to increase the pressure air-pump *a* may be operated. In most cases it may be found more convenient to use the air-pump, even to obtain slight pressure.

Through the orifice *o* in the bottom of the vessel *b* the gasoline is forced into tube *i*, from which it passes through the small opening, *s*, into the burner *f*. The screw-threaded needle *x* in tube *i* is provided with wheel *w*, by which it may be turned to open and close opening *s* and regulate the flow of gasoline through it. The point of the needle may be made to extend beyond opening *s* to clear it of any obstruction that might otherwise retard or prevent the flow of the gasoline into burner *f*.

In using the paint-burner it is necessary to be almost constantly moving it, and while so doing the thumb of the hand which holds it may be placed on button *n*, and press down from time to time, as may be required, the piston *c*, which will be forced up again by spring *t*. While one hand is thus occupied the other is used in scraping off the burned paint with a scraper.

I claim as my invention—

1. The needle *x*, extending through opening *s*, tube *i*, and burner *f*, in combination with vessel *b*, provided with sliding valve *d*, formed suitably for a mouth-piece at its upper end, and having spring *s'*, substantially as described.

2. The vessel *b*, provided with air-pump *a*, situated in the top of vessel *b*, near its handle, in combination with tube *i*, needle *x*, and burner *f*, substantially as described.

3. The vessel *b*, provided with air-pump *a* and valve *d*, formed suitably for a mouth-piece at its upper end, in combination with tube *i*, needle *x*, and burner *f*, substantially as described.

JOHN A. FELT.

Witnesses:

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