

(No Model.)

W. W. HOUGH & H. C. HOFFMAN.

STRAINER AND CUT-OFF.

No. 334,386.

Patented Jan. 12, 1886.

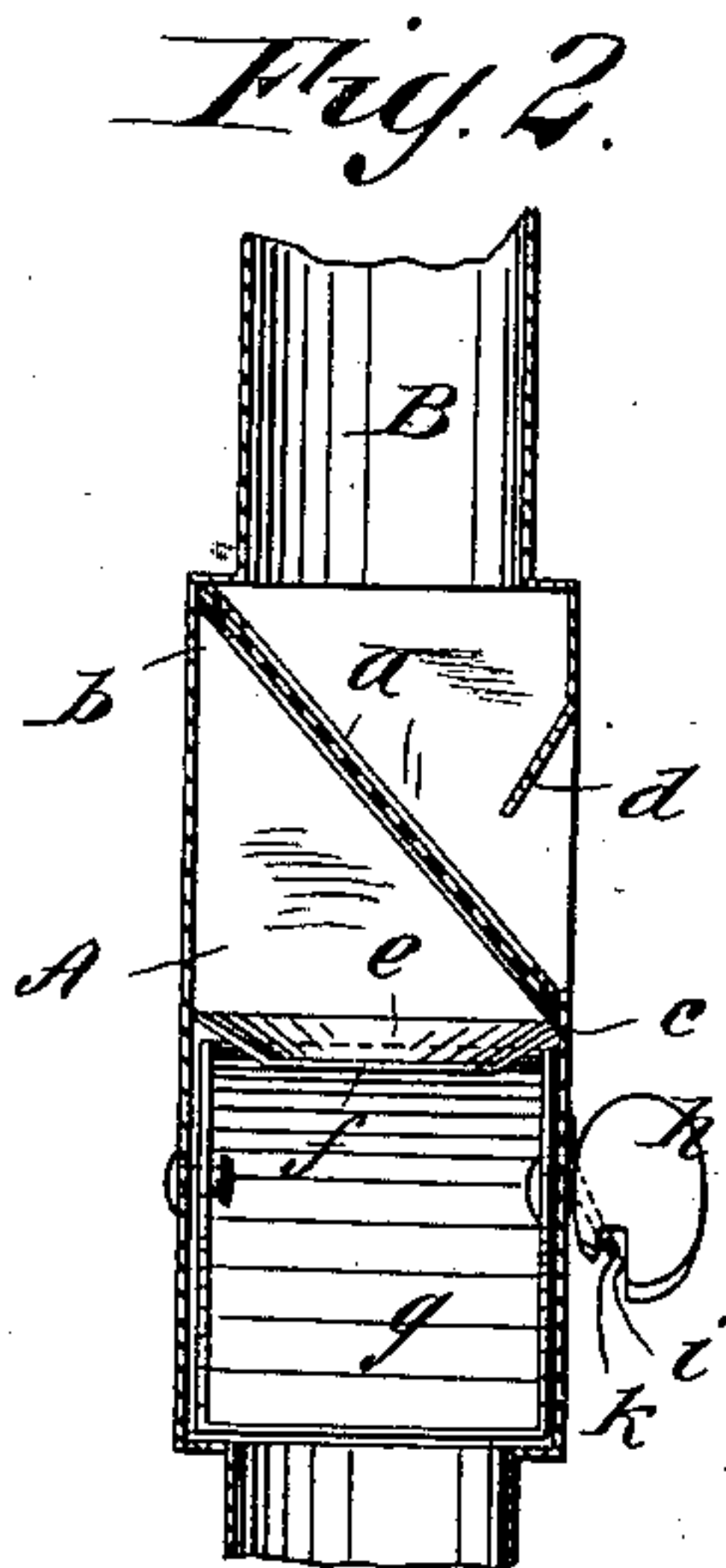
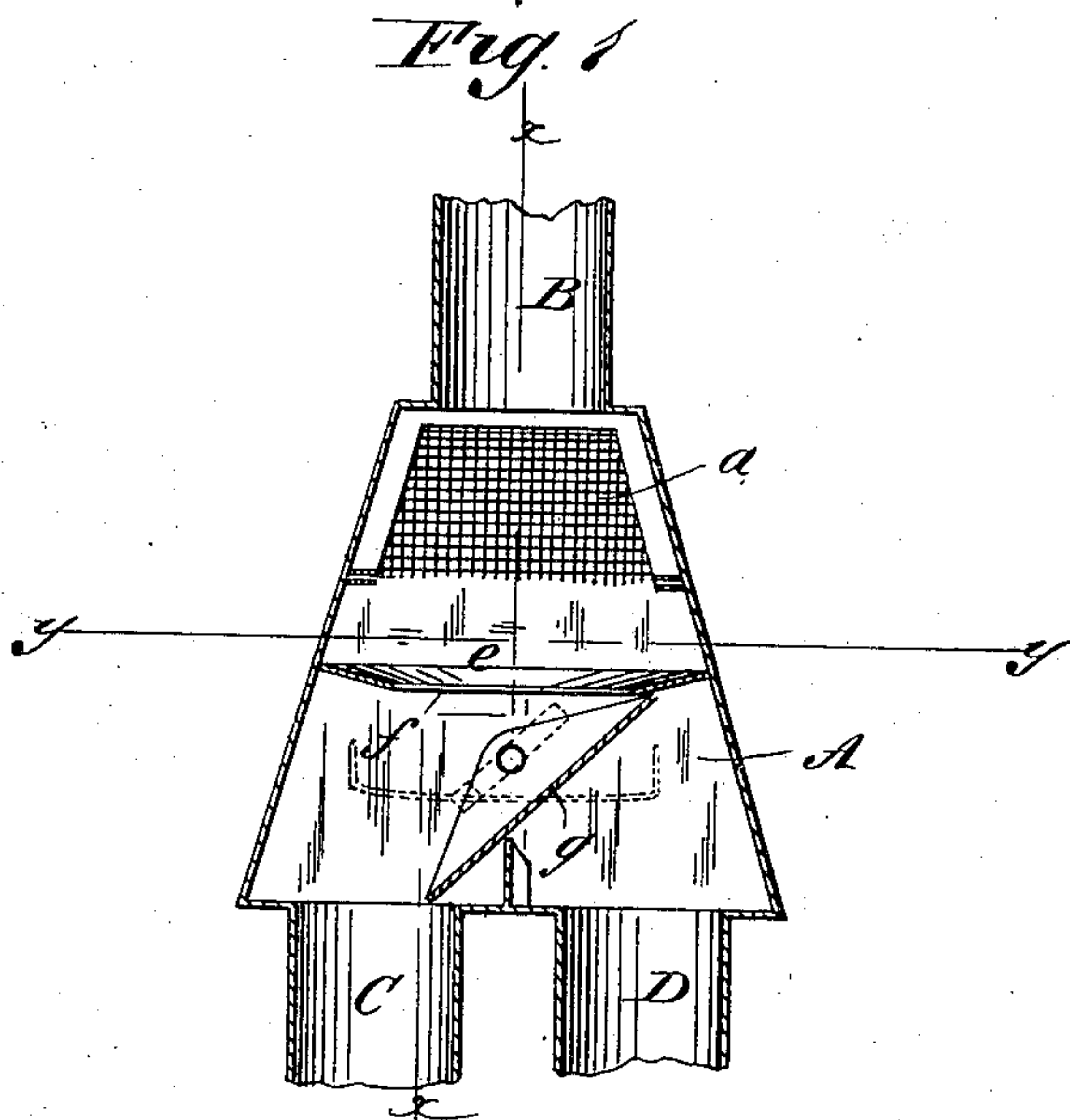
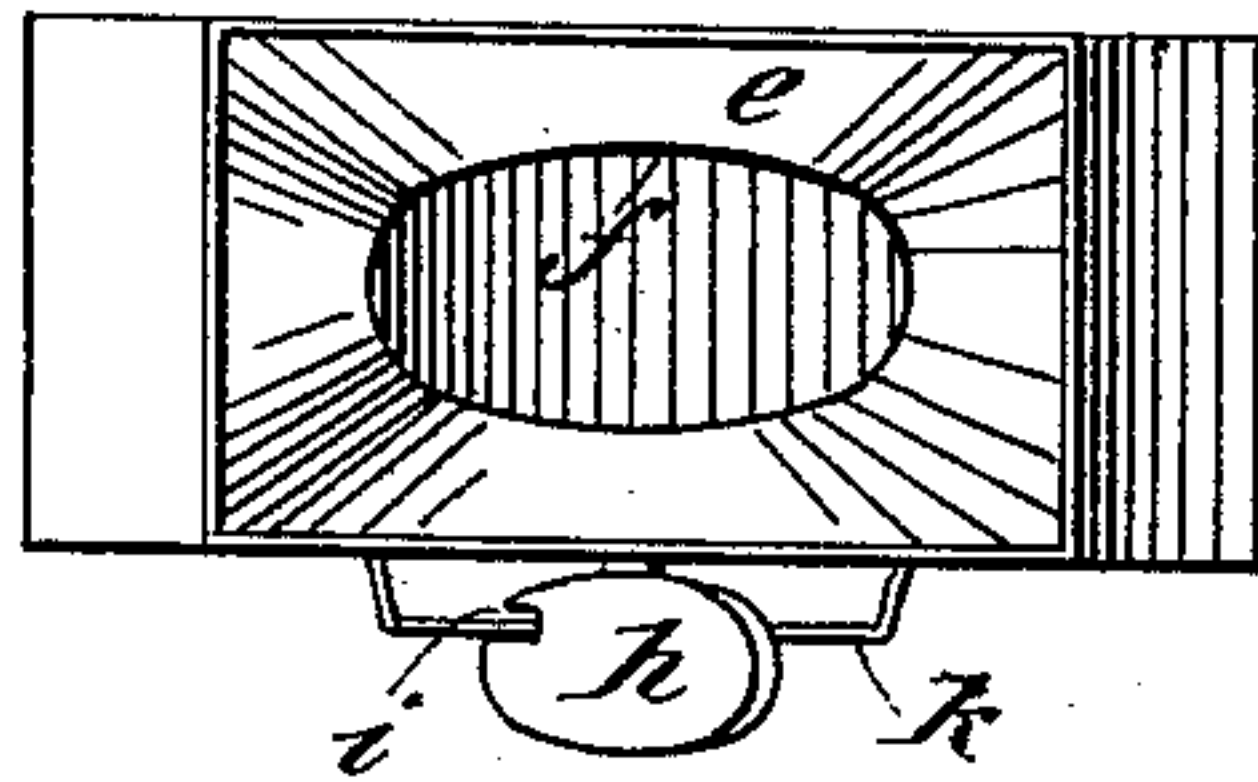


Fig. 3



WITNESSES:

J. M. Cottle,
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INVENTOR:

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UNITED STATES PATENT OFFICE.

WILLIAM W. HOUGH AND HENRY C. HOFFMAN, OF MOUND CITY, ILLINOIS.

STRAINER AND CUT-OFF.

SPECIFICATION forming part of Letters Patent No. 334,386, dated January 12, 1886.

Application filed July 20, 1885. Serial No. 172,121. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM W. HOUGH and HENRY C. HOFFMAN, both residents of Mound City, in the county of Pulaski and State of Illinois, have invented a new and useful Improvement in Strainers and Cut-Offs, of which the following is a full, clear, and exact description.

Our invention relates to that class of devices employed to strain and direct the flow of water caught upon house-tops; and the invention consists of certain details of construction and combinations of parts, as will be hereinafter described, and specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front vertical sectional elevation of our strainer and cut-off. Fig. 2 is a sectional view of the same, taken on line *x x*, Fig. 1; and Fig. 3 is a sectional plan view of the apparatus, taken on line *y y*, Fig. 1.

The main body or casing of our improved strainer and cut-off consists of a box-like structure, A, having an inlet-pipe, B, and two outlets, C and D, one of which, C, connects with the sewer and the other with the cistern.

A strainer, *a*, which preferably consists of a piece of wire-gauze mounted in a metallic frame, is secured in a position within the casing A, so that it will diagonally cross the path of the inlet-pipe B, as best shown in Fig. 2, the strainer extending from the upper corner of the side *b* to about the middle of the side *c* of casing A. The side *c* is cut away just above the point where it is met by the strainer *a*, but all of the portion so cut is not removed, as the lower half of that which remains is bent within the casing to form the deflecting-plate *d*, by which the water, if it should spread on leaving the pipe B, would be thrown back upon the strainer *a*.

A horizontal central partition, *e*, that has a

central opening, *f*, is secured within the casing A, and in the compartment beneath this partition we pivotally mount a deflecting-plate, *g*, the position of which is controlled by a thumb-piece, *h*, that is slotted at *i* to engage with a spring-bail, *k*, in order that the plate *g* may be securely held to deflect the water to either the pipe C or the pipe D.

If the roof which catches the water delivered by the inlet B is dirty, the plate *g* is moved to the position shown in Fig. 1 to deflect the water into the pipe C, which we will suppose to be the one connected with the sewer, and the plate is held in the position indicated until the roof is cleaned off by the rain, at which time the plate *g* will be moved to a position to deflect the water into the pipe D, which leads to the cistern.

The strainer *a* intercepts any debris of appreciable size that may be washed from the roof into the pipe B.

By the use of such an apparatus as we have described the water delivered to the cistern will be freed from all matter that would be likely to decompose and injure the water retained for use.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

As an improved article of manufacture, a rain-water strainer and cut-off for cisterns, consisting in the pipes B C D, the intermediate casing, A, having an opening in its side, and an inwardly and downwardly inclined deflecting-plate, *d*, at the upper edge of the said opening, the diagonal strainer *a*, extending to the lower edge of the opening, below the deflecting-plate, and the pivoted cut-off *g*, above and between the pipes CD, substantially as set forth.

WILLIAM W. HOUGH.
HENRY C. HOFFMAN.

Witnesses:

L. F. CRAIN,
WM. PAINTER.