

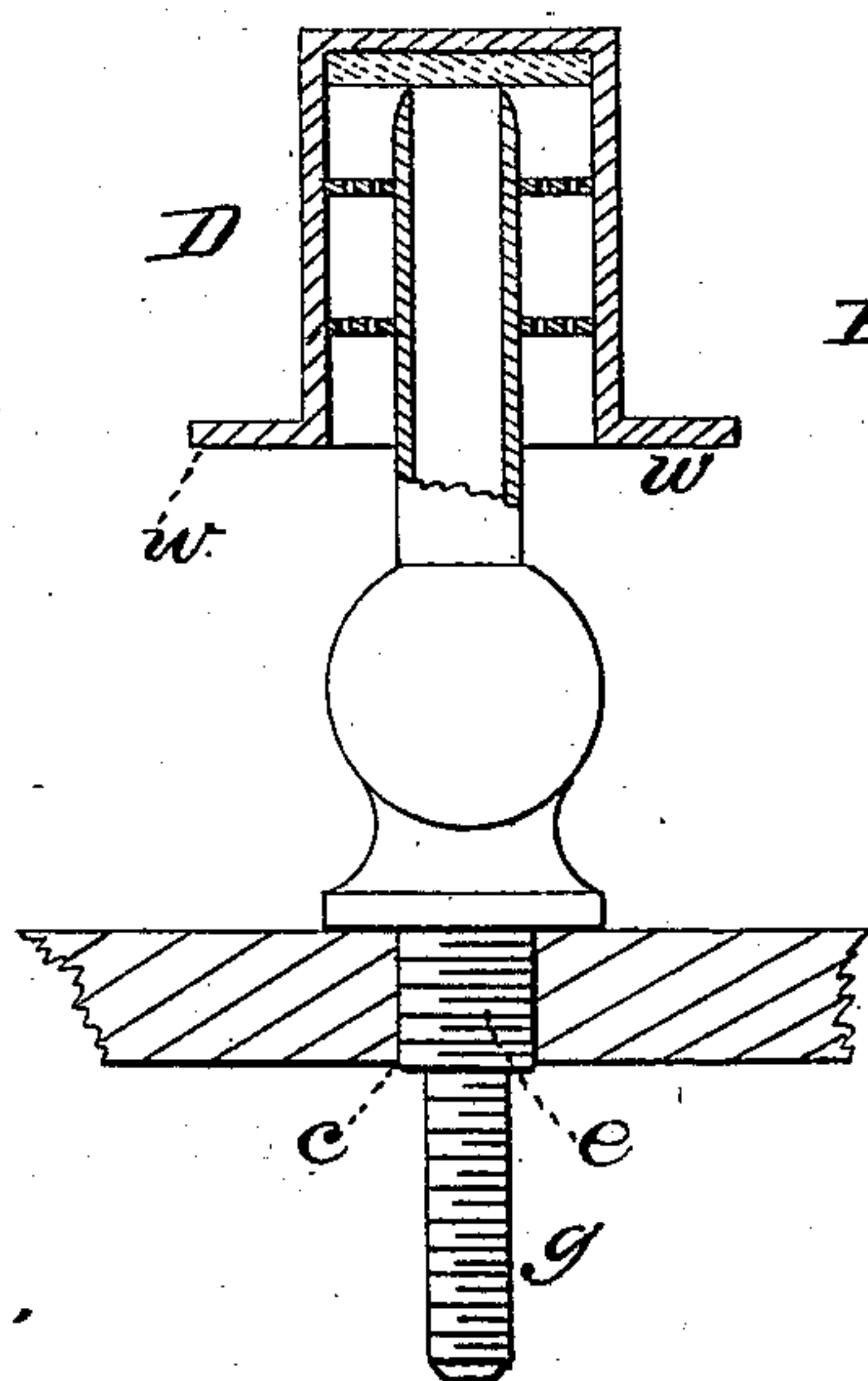
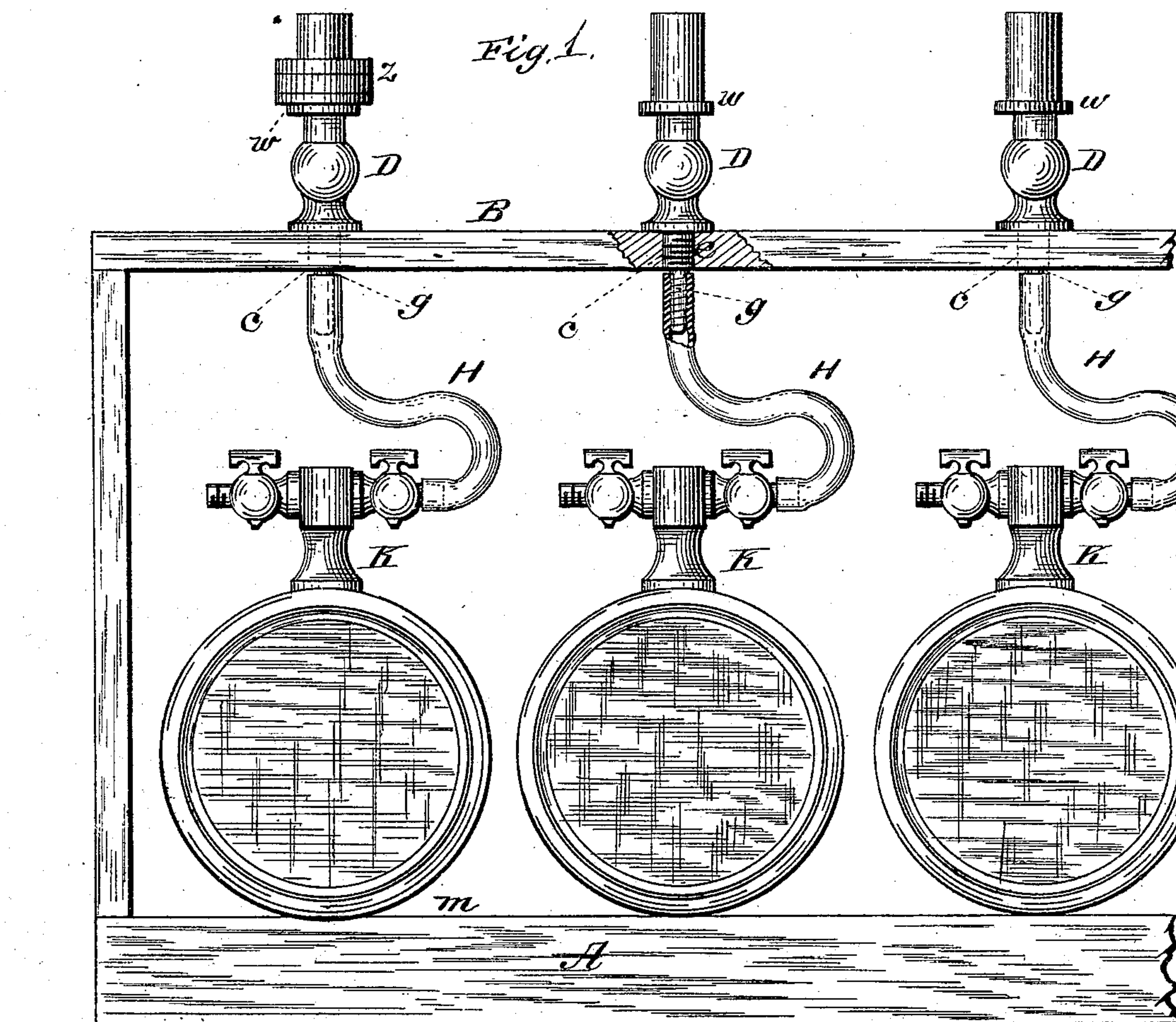
(No Model.)

H. GUTH.

VENTILATING VALVE FOR FERMENTING CASKS.

No. 275,764.

Patented Apr. 10, 1883.



WITNESSES
E. H. Bates.
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UNITED STATES PATENT OFFICE.

HENRY GUTH, OF NEW YORK, N. Y.

VENTILATING-VALVE FOR FERMENTING-CASKS.

SPECIFICATION forming part of Letters Patent No. 275,764, dated April 10, 1883.

Application filed February 16, 1882. (No model.)

To all whom it may concern :

Be it known that I, HENRY GUTH, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in Ventilating-Valves for Fermenting-Casks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my improvement in ventilating-valves. Fig. 2 is a sectional view of one of the valves.

This invention has relation to ventilating-valves for fermenting-casks; and it consists in the novel construction and arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

In the annexed drawings, the letter A designates a stationary stand having a shelf or ledge, B, which is perforated or provided with seats *c* to receive the ventilating-valves D. Each ventilating-valve is provided with a reciprocating inverted valve-cap, and within the same a tube having guides, substantially as described in Letters Patent No. 225,368, granted to me on the 9th of March, 1880. The lower end of said tube is made long enough to be inserted through the perforation *c* of the shelf B, and is usually provided with a thread, *e*, at this point to insure a secure fastening. Below this part *e* the valve is provided with a nipple, *g*, or other fastening for the attachment of a tube, H, which is usually made of rubber hose, but may consist of block-tin or other metallic piping.

K indicates a double or other stop-cock, which is inserted into the cask, which may be

placed on the beams *m* of the stand below the ledge or shelf B; or the cask may be located in the neighborhood of the shelf.

The lower end of the tube H is designed to be connected to the stop-cock, which is attached to the cask as indicated in the drawings. The valve D is provided with an exterior bearing, *w*, for weights *z*, which are adjustable thereon, in order to establish the fermentation in the cask under any desired pressure. The valve also effectually prevents bursting of the cask. It also prevents the beer from turning sour or stale, and obviates the rising of deposits in the cask, which often occurs when there is a quick change of atmospheric conditions. The pressure on the valve must, however, be carefully regulated, and the valve must be free to work in a vertically-reciprocating manner. Therefore the valve is fixed in the stationary shelf or stand, so that its movements will be always steady and correct, the movable cask being connected to it by a tube and stop-cock.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with a stationary stand provided with a perforation or seat, *c*, of a ventilating-valve, D, connected to said seat, and provided with a threaded projecting stem, *g*, and a tube, H, and a double stop-cock, K, adapted to be inserted in the cask containing the fermenting liquor, whereby each cask in the stand may be provided with a separate ventilating-valve, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY GUTH.

Witnesses:

FREDERICK A. BOTTY,
FREDERICK P. HUMMEL.