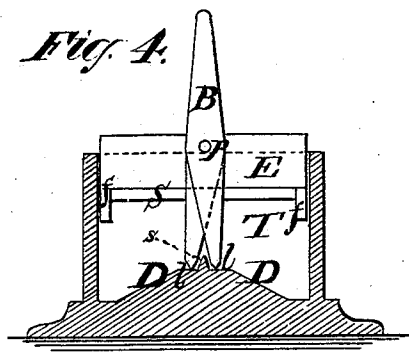
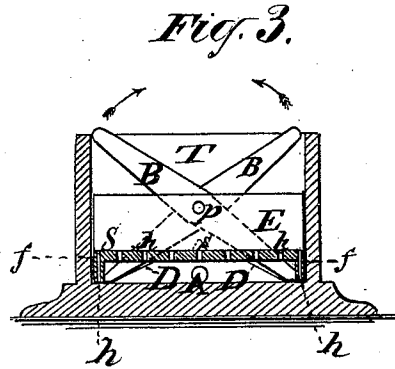
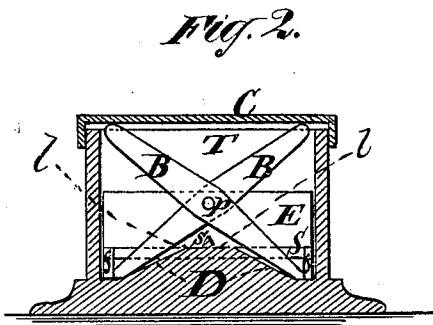
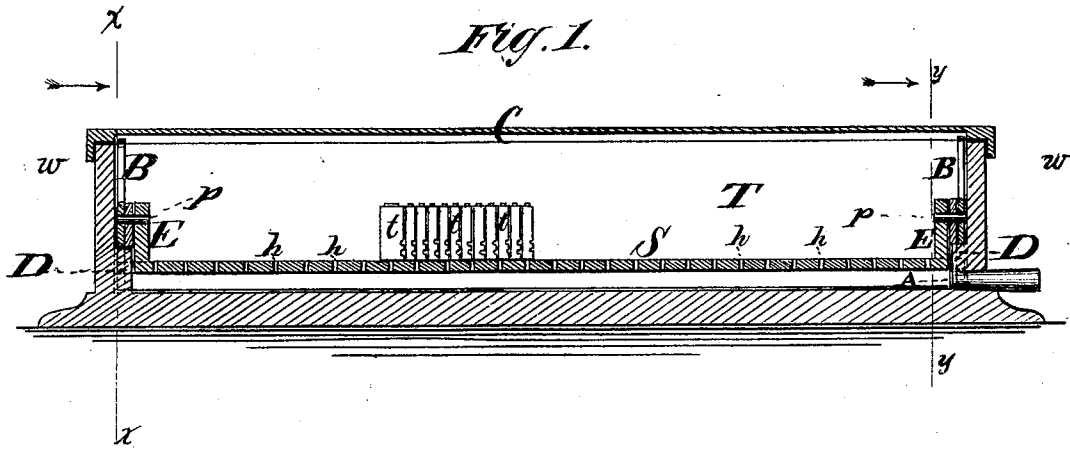


J. F. HANNAN.

TANK GALLEYS FOR PRINTERS.

No. 177,240.

Patented May 9, 1876.



Witnesses
John Becker
Jas. Harnes

James F. Hannan
by his Attorney
Brown & Allen

UNITED STATES PATENT OFFICE.

JAMES F. HANNAN, OF NEW YORK, N. Y.

IMPROVEMENT IN TANK-GALLEYS FOR PRINTERS.

Specification forming part of Letters Patent No. **177,240**, dated May 9, 1876; application filed January 31, 1876.

To all whom it may concern:

Be it known that I, JAMES F. HANNAN, of the city, county, and State of New York, have invented a new and useful Improvement in Tank-Galleys for Holding, Cleaning, and Preserving Printers' Type; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification.

In the use of printing-types, where the same, after being composed or set up, are kept standing on galleys to be periodically used, as is largely the case with advertisements, or even when they are "worked off" and stand for a few hours only, one of the greatest drawbacks, especially where rapidly-drying inks are employed, is the cementing together of the types by the ink, which penetrates into the interstices between the types. It is scarcely possible, without an impracticable expenditure of time, to so thoroughly clean them, with apparatus commonly used, as to prevent this cementation. There results great loss of time in separating them for distribution, and the labor of separating them without commingling the sorts, or, as printers term it, "making pi," is very severe upon the muscles of the fore-arm and the hand. Besides, it is sometimes necessary to strike the types with a small mallet to loosen them, and this causes serious damage to them. To remedy these and other evils attending the drying of the ink on the types is the object of my invention, which provides a cheap, portable, and convenient tank-galley, of peculiar construction, for keeping the types immersed in water or other suitable liquid or solution, when standing out of use, in order to prevent the drying of the ink by the access of the air, which hardens the "driers" forming ingredients in all printers' inks of which I have knowledge. My invention also provides for the convenient and thorough cleansing of the type while on the galley.

Figure 1 in the accompanying drawing is a central, vertical, and longitudinal section of my improved tank-galley. Fig. 2 is a section made on the line *x x* in Fig. 1. Fig. 3 is a section of the same made on the line *y y* in Fig. 1; and Fig. 4 is the same section as Fig.

2, but with the movable parts in a different position.

Similar letters refer to like parts in each of the figures.

T represents the tank, preferably made of cast-iron, rectangular in form, and in a single piece; but I do not confine myself to this form, and I may make the tank of several pieces. At each end of the tank, upon the inside and on the bottom thereof, are cast or otherwise formed inclined planes D. Upon each of these inclined planes rest the lower ends of a pair of pivoted legs or levers, B. Each pair of these levers B is pivoted together, and to the end pieces E of a type-supporting shelf or galley, S, by a pivot, *p*. Instead of using the supporting-bars in pairs, pivoted to the end pieces of the shelf S by a single pivot, they may be pivoted separately, or one bar only may be pivoted to each end piece of the said shelf, which will work quite well; or still other means may be employed for the same purpose; but I prefer the method first described. The type-supporting shelf S is perforated by holes *h*. At each end are preferably formed descending longitudinal flanges *f*, which act as guides to keep the shelf level in its ascent and descent, when manipulated as hereinafter described, or any other ordinary means of guiding the shelf, such as guideways, grooves, or similar devices, may be employed. The said flanges act as supports for the shelf S when in its lowest position, as in Fig. 4, leaving a space under said shelf for the accumulation of impurities. The flanges *f* are also perforated with holes like the shelf.

By taking hold of the tops of the left-hand pair of pivoted legs or levers B with the thumb and index-finger of the left hand, and the tops of the right-hand pair of pivoted legs or lever with the thumb and finger of the right hand, and pressing the tops together in the direction indicated by the arrows in Fig. 3, the bottoms of said pivoted legs are made to slide along toward the highest points of the inclined planes D till they rest upon level ledges *l*, the bottoms of said pivoted legs being prevented from passing by each other by a stop, *s*. During this movement the shelf S is raised to the position shown in Fig. 4, where it will remain supported by the pivoted legs or levers B.

The shelf is lowered by reversing the movement of the tops of the pivoted legs or levers B.

It is designed to put in the tank T enough liquid to cover the types—say enough to rise to the line *ww*, Fig. 1—when the types *t* are immersed, and when the shelf S is raised to the position shown in Fig. 4 the liquid will drain down through the holes *h* into the bottom of the tank, whence, when it has become too foul for further use, it may be withdrawn through a hole, A, provided with a suitable cock or plug.

The sides of the tanks are preferably placed at suitable distances asunder to support the type from separation laterally, so that the shelf S and the sides of the tank T, acting together, are a substitute for the ordinary galley used to confine and hold type while standing after being composed or set up; but the shelf may have upward flanges for supporting the type, if desired. The whole is provided with a tight-fitting cover, C, so that the odor of whatever liquid may be employed does not disagreeably pervade the room in which the types are kept standing.

The inclined planes D serve to increase the vertical motion of the shelf or galley S, thus enabling me to shorten the pivoted legs or levers B enough to obtain all the vertical motion of the said shelf that may be desired, and

yet leave room in the tank for the descent of the tops of the said pivoted legs or levers below the upper edge of the said tank, so as not to interfere with the close fitting of the cover.

Tank-galleys thus constructed and used may be placed on shelves and kept for any length of time without the types contained within them becoming cemented together or disarranged, and the types may, by a suitable cleansing solution, be conveniently cleansed with a brush while on the shelf S, and supported by the sides of the tank T and the pivoted legs or levers B.

I claim—

1. The combination, with the tank T and the perforated shelf or galley S, of one or more supporting-levers or pivoted legs attached to the ends of the said shelf or galley, and one or more bearings provided for the said levers or pivoted legs at each end of the tank, substantially as herein set forth.

2. The inclined planes D at the ends of the tank, in combination with the levers or pivoted legs at the ends of the perforated shelf or galley S, substantially as and for the purpose herein set forth.

JAMES F. HANNAN.

Witnesses:

BENJAMIN W. HOFFMAN,
EDWARD B. SPERRY.