G. F. PORTER.

APPARATUS FOR FILING SHEETS.

APPLICATION FILED JUNE 12, 1908.

1,099,665. **Patented June 9, 1914.**

Fig. 1.

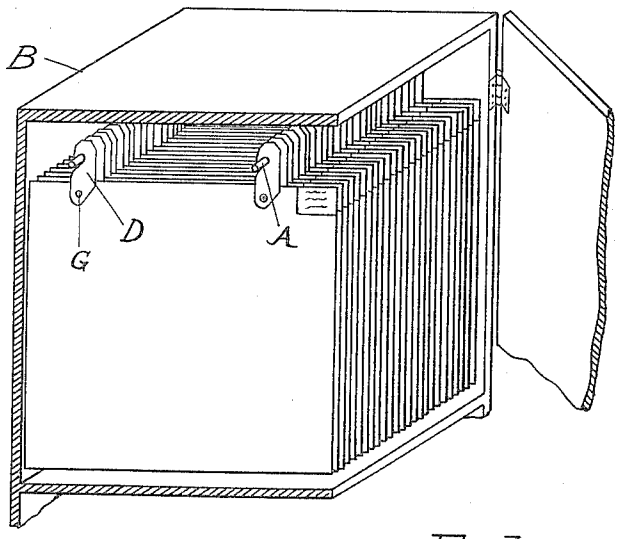


Fig. 2.

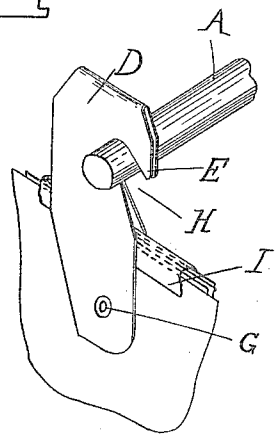


Fig. 3.

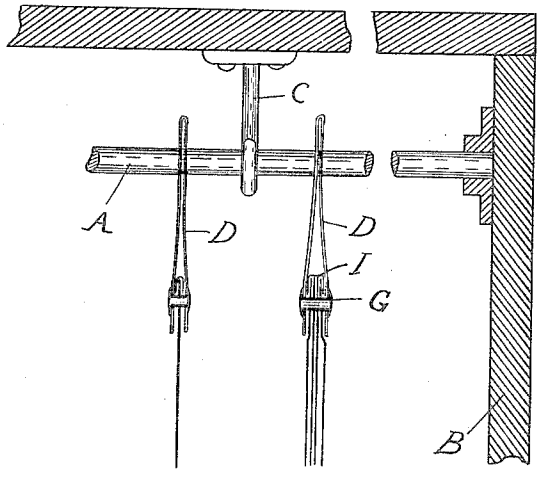
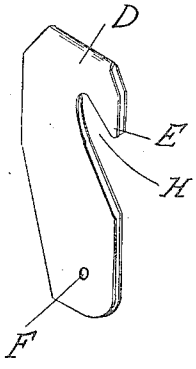


Fig. 4



Witnesses

W. E. Ford

J. B. Ulmap

Inventor

George F. Porter

By Whittemore, Hulbert & Whittemore

Attys

UNITED STATES PATENT OFFICE.

GEORGE F. PORTER, OF WALKERVILLE, ONTARIO, CANADA.

APPARATUS FOR FILING SHEETS.

1,099,665. Specification of Letters Patent. Patented June 9, 1914.

Application filed June 12, 1908. Serial No. 438,153.

To all whom it may concern:

Be it known that I, GEORGE F. PORTER, a citizen of the United States of America, residing at Walkerville, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Apparatus for Filing Sheets, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to systems for filing, being more particularly adapted for use in the filing of mechanical drawings, architect's plans, etc.

It is the object of the construction—first, to file the sheets without folding or rolling; second, to obtain the greatest economy in the space required; third, to protect the sheets from dust; fourth, to render them accessible and to permit of easily removing and replacing the same.

With these and other objects in view, the invention consists in the system and the construction as hereinafter set forth.

In the drawings Figure 1 is a sectional perspective view of a filing cabinet constructed in accordance with my invention; Fig. 2 is an enlarged perspective view of one of the hanger clips; and Fig. 3 is a section illustrating the manner of attaching the clip to a set of drawings to be filed. Fig. 4 is a perspective view of one of the clips detached.

The essential characteristic of my improved system of filing is the suspension of sheets in parallel vertical planes and in close proximity to each other. This results in holding the drawings, or sheets, smooth and flat, reduces the space required for their filing to the minimum, and renders them mutually protective. It is, however, necessary to provide supporting means which will hold the sheets in parallel relation and at the same time will permit of ready engagement with and disengagement from the file. This I have accomplished by employing horizontally-extending hanger bars preferably a pair of bars in parallel relation, and by providing flat hangers for attachment to the sheets engageable laterally with said bars.

As illustrated, A are the hanger bars, which are shown as arranged within a cabinet B near the top thereof, and supported at their opposite ends. Where a large cabinet is used, an intermediate support C may be provided for the bars so as to hold them in a substantially horizontal plane.

D are plate hangers for attachment to the sheets to be filed, and which are provided with hooks E for engaging the bars A. These hangers are preferably formed of two-ply sheet metal, which at their lower ends are adapted to embrace the individual sheet or group of sheets to be filed. These lower ends are also provided with alined apertures F, through which a brad or rivet G may be inserted to firmly clamp the plies of the hangers against the opposite sides of the sheets. The hook D is preferably formed by providing an inclined entry slot H of sufficient width to receive the bar A.

By means of this simple construction of hanger clip described, the drawings or other sheets may be suspended from the bars A, it being only necessary to attach a pair of clips to the upper edge of the sheet in properly spaced relation and then to insert the sheet in its proper place within the cabinet, engaging the hanger with the rods A. Any suitable system of indexing may be employed, and as the hangers are engageable with the bars at any point in the length thereof the sheets may be properly positioned.

With the construction as described, the sheets as they accumulate may be added to the file without disturbing the arrangement of those already in place, or the disengagement of the same from their supports. The added sheet is placed in position by first slightly separating the adjacent sheets at the proper point by sliding their hangers along the rods A. The new sheet may then be inserted and the hangers D quickly engaged with the rods by a lateral movement. To withdraw a sheet from the file, its position being located by the index, the adjacent sheets are moved away to provide the necessary clearance, after which the hanger may be disengaged and the sheet removed.

By arranging the supporting rods A some distance back of the forward edge of the sheets, this will permit of placing a title or index card on each of the sheets or groups of sheets, which may be inspected by merely turning back the corner of the adjacent sheet.

As shown in Fig. 3, where a group of sheets belong to the same set of drawings, or other papers are to be held together, they may be clamped in this relation by the

hanger clips by a suitable binder sheet, such as I, may be turned over the upper edges and also fastened by the clips.

What I claim as my invention is:

1. In a filing system comprising a series of sheets suspended in substantial vertical planes and movable toward and from each other, the combination of a supporting rod above the sheets extending transverse to the plane thereof, and a flat hanger attachable to the upper edge of each sheet to be suspended, said hanger having a portion projecting above the sheet with a laterally opening slot therein for engagement with said rod.

2. In a filing system comprising a series of sheets suspended in substantial vertical planes and movable toward and from each other, a hanger for suspending the sheets comprising a flat, two-ply sheet metal clip adapted to embrace one or more sheets, and clamping means engaging alined apertures in said clips and passing through the intermediate sheet or sheets, said hanger being provided with a laterally opening slot for engagement with a support above the plane of the sheets.

3. In a filing system comprising a series of sheets suspended in substantial vertical planes and movable toward and from each other, the combination with a laterally-extending support above the plane of the sheets, of suspensory means for a plurality of sheets attachably secured thereto, said suspensory means having a portion extending above the plane of the sheets engageable with the lateral support by a movement in the plane of suspension and said sheets when suspended from said support being adjustable thereon into and out of contact with each other.

4. In a filing system comprising a series of sheets suspended in substantial vertical planes and movable toward and from each other, the combination of a plurality of parallel supporting rods extending above the sheets and transverse to the plane thereof, of a plurality of flat hangers attachable to each of the series of sheets, said hangers each having a portion projecting above the edge of the sheet provided with laterally opening slots simultaneously engageable with said parallel rods by a movement in the plane of suspension, said sheets in suspended position being movable toward and from each other by sliding movement of said slotted portion along said rods.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE F. PORTER.

Witnesses:
NELLIE KINSELLA,
HARRY W. GALVIN.