June 19, 1923.

1,459,298

P. TEARE

FILING DEVICE FOR LOOSE LEAVES

Filed July 25, 1921

Fig. 2.

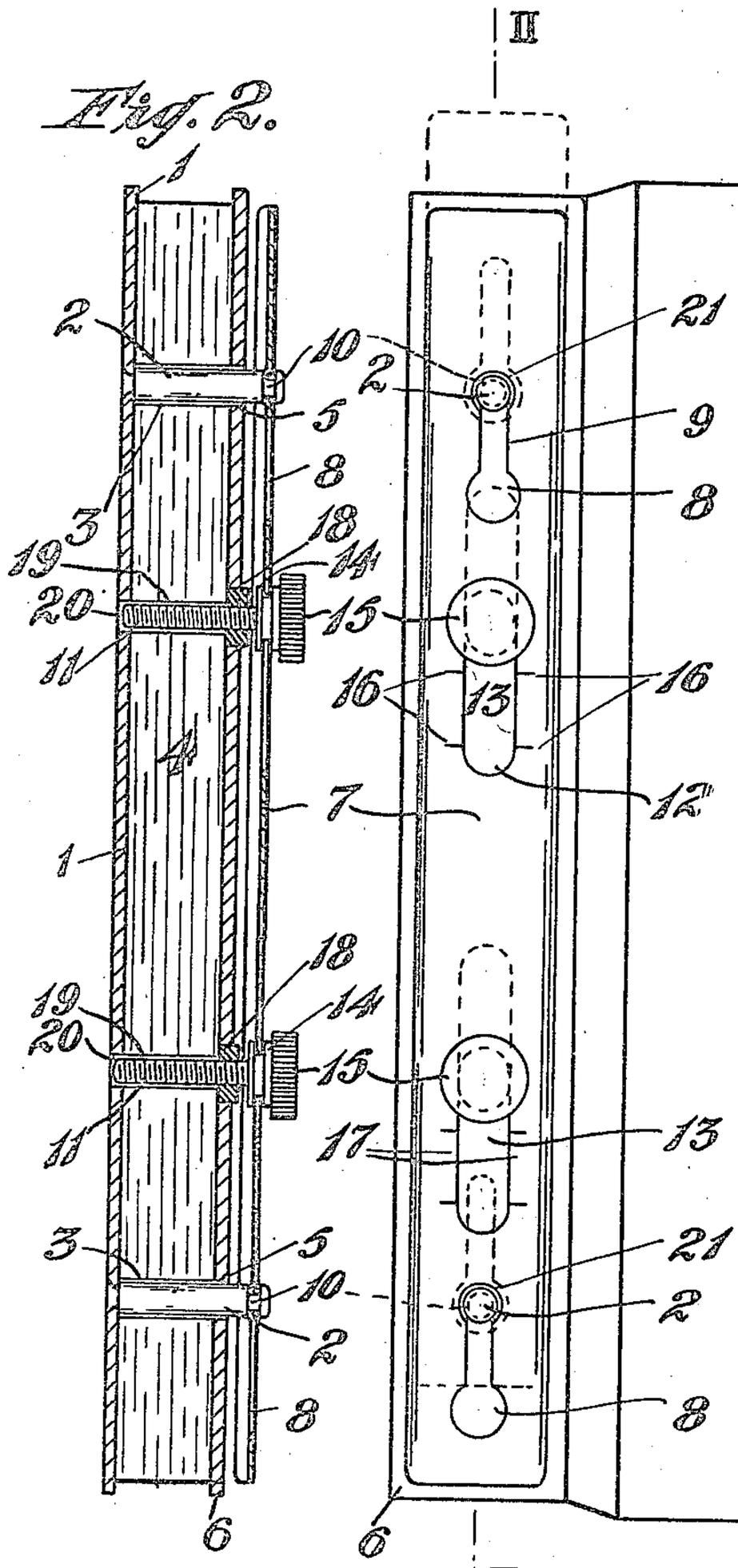
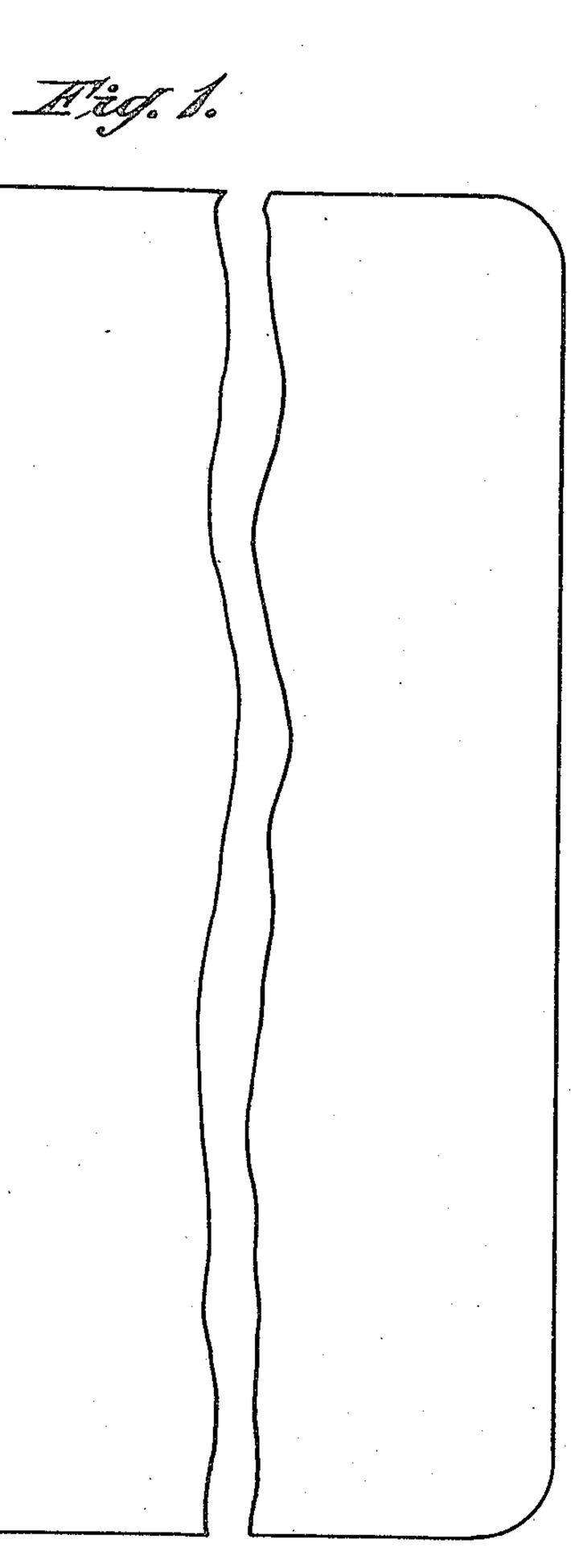


Fig. 1.



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UNITED STATES PATENT OFFICE.

PHILIP TEARE, OF MELBOURNE, VICTORIA, AUSTRALIA.

FILING DEVICE FOR LOOSE LEAVES.

Application filed July 25, 1921. Serial No. 487,513.

To all whom it may concern:

Be it known that PHILIP TEARE, a subject of the King of Great Britain, residing at 61 A'Beckett Street, Melbourne, in the State of Victoria, Australia, has invented certain new and useful Improvements in Filing Devices for Loose Leaves, of which the following is a specification.

Numerous devices are in use for the purpose of filing or assembling loose leaves between covers the coupling or connecting devices being adapted to admit of withdrawal of any one or more leaves or the insertion of further leaves on the file.

The device according to the present invention possesses all the advantages of existing files in a simplified construction having no loose parts which can be mislaid or which necessitates the use of an instrument to manipulate same. Further it is adapted to effectively clamp the leaves in situ irrespective of the number on the file and this applies from one upwards to the full capacity of the file.

Again when the file is divided during removal of any of the leaves the latter can be held in correct position to be instantly placed in position again on the file.

The accompanying drawings illustrate the invention:—

Fig. 1 being a plan (broken) and

Fig. 2 a section on line II—II of Fig. 1.

As illustrated the file base or backboard 1, which is preferably formed of thin metal, has affixed thereto upstanding cylindrical posts or pillars 2 to pass through apertures 3 provided in the sheets 4 in the usual way along their edges and through corresponding apertures 5 in the cover board or plate 6 of the file.

Upon the cover plate 6 is a slidable metal strip 7 slightly shorter than said plate and preferably made of channel section which is locked in position by engagement with the posts 2. For this purpose the strip is formed with keyhole slots 8 the edges 9 of the narrow ends of which engage with grooves 10 cut in the sides of the projecting ends of the posts when the strip is slid into locking position. In the latter position the ends of the posts engage slight depressions 21 formed in the strip at the narrow ends of the keyhole slots which act as locks and necessitates a slight depression of the ends of the strip before the latter can be slid backwards.

By a reverse sliding movement of the strip the projecting ends of the posts 2 coincide with the enlarged ends of the keyhole slots (as shown in dotted lines in Fig. 1) and the edges 9 of said slots 8 are freed from the grooves 10 in said posts.

Depending from said covering strip are screws 11, which pass through elongated slots 12 formed in said strip. The edges 13 of the slot permanently engage between two flanges 14 formed below the milled head 15 of the screws thus supporting the latter and at the same time permitting the strip to slide longitudinally. In order to connect the strip and screws in this manner two slits 16 are formed in the opposite edges of the slot 12, and the edges 17 between the slits are turned down to allow the flanges 14 of the screws to pass through and engage the edges of the slots after which the edges 17 are bent back again into position.

The screws engage threaded apertures in the cover plate 6 of the file or preferably nuts 18 sweated into same and pass through apertures 19 in the sheets and enter apertures 20 formed in the file base 1.

By this arrangement the cover plate 6 operates as a travelling nut on the said screws 11 and by rotating the latter the file covers are drawn together or moved apart at the top ends when the covering strip mentioned is held to the outer ends of the beforementioned posts.

To divide the file it is only necessary to slide the covering strip to cause the keyhole slots 8 to register in position for lifting over the ends of the posts 2, fixed to the base board 1 (as shown in broken lines Fig. 1) when the whole or any number of the filed sheets 4 can be lifted away and when removed can be held on the screws. Assuming a number of leaves to have been removed from or added to the file and the cover with the screws and strip mentioned again placed in position the file covers can be adjusted and the same with the contained matter tightly clamped together again by operating the milled head of the screws.

It will be appreciated from the foregoing that with the arrangement specified the device permits of the extraction, insertion or replacement of any one or more sheets with

facility and without affecting the utility of the device after the screws have been regulated.

I claim:—

1. A loose sheet filing device comprising a backing member, posts projecting therefrom, a metallic strip detachably connected to the posts, a cover slidable on the latter between the backing member and strip, and clamping screws rotatably mounted in the strip in threaded engagement with the cover.

2. A loose sheet filing device comprising a back board, posts mounted in the back and projecting perpendicular thereto, a metallic strip detachably connected to the posts and having longitudinally extending slots, a clamping plate slidable on the posts between the back and strip, and clamping screws rotatable and movable longitudinally of said slots and in threaded engagement with the clamping plate, and means on the screws to prevent axial movement relative to the strips.

3. A loose sheet filing device comprising a back board, posts mounted in the back and projecting perpendicular thereto, a metallic strip detachably connected to the posts and having longitudinally extending slots, a clamping plate slidable on the posts between the back and strip, and clamping screws in threaded engagement with the clamping plate and having flanged portions engaging both sides of the strip.

4. A loose sheet filing device comprising a back board, posts mounted therein having annular grooved end portions, a metallic strip having keyhole slots the narrow portions of which engage the grooved end portions of the posts, a clamping plate slidable on the posts between the back board and strip, and clamping screws mounted in the latter and in threaded engagement with the clamping plate.

5. A loose sheet filing device comprising a back board, posts mounted therein having annular grooved end portions, a metallic strip having key hole slots the narrow portions of which engage the grooved end portions of the posts, said strip also having elongated slots, binding screws mounted in the latter having annular grooved portions engaged by the sides of the elongated slots, and a clamping plate slidable on the posts and formed with threaded apertures engaged by the threads of the binding screws.

6. A loose sheet filing device comprising a backboard, posts fixed therein having annular grooved end portions, a metallic strip having keyhole slots formed with depressions in their narrow ends to receive the outer ends of the posts, a clamping plate slidable on the posts, clamping screws mounted in elongated slots formed in the strips and engaging threaded apertures formed in the clamping plate said screws having annular flanges above and below the metallic strip to prevent axial movement of the screws therein.

Dated this 8th day of June, 1921.

PHILIP TEARE.