P. MacGREGOR.

FILING DEVICE.

APPLICATION FILED JUNE 18, 1910.

1,002,290. Patented Sept. 5, 1911.

Fig. 1.

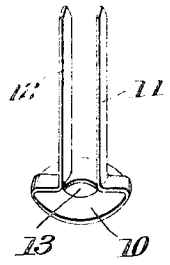


Fig. 2.

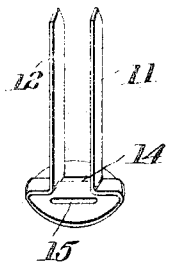


Fig. 3.

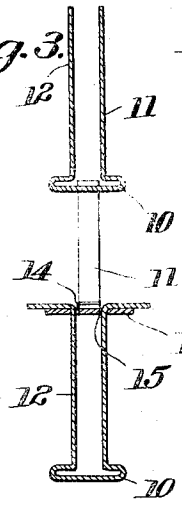


Fig. 4.

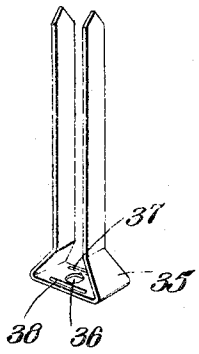


Fig. 5.

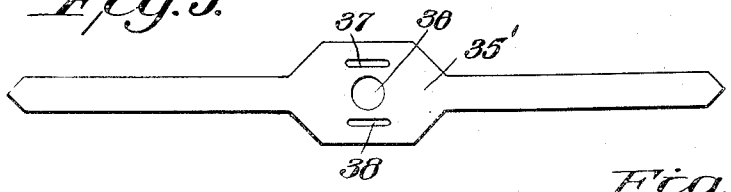


Fig. 6.

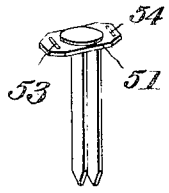


Fig. 7.

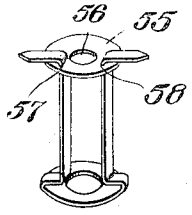


Fig. 9.

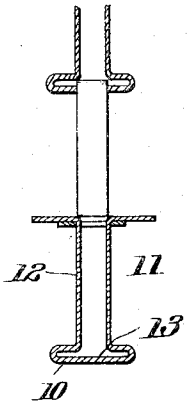


Fig. 10.

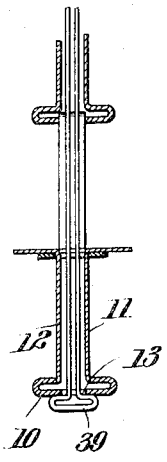
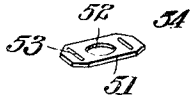


Fig. 8.



WITNESSES

C. M. Walker.

P. H. Moore

INVENTOR

Peter MacGregor

Fred B. Fetherston Haugh

Attorney

UNITED STATES PATENT OFFICE.

PETER MacGREGOR, OF OTTAWA, ONTARIO, CANADA.

FILING DEVICE.

1,002,290. Specification of Letters Patent. Patented Sept. 5, 1911.

Application filed June 18, 1910. Serial No. 567,702.

To all whom it may concern:

Be it known that I, PETER MACGREGOR, of the city of Ottawa, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Filing Devices, of which the following is a specification.

My invention relates to improvements in filing devices of the type in which the documents or other articles to be filed are adapted to be impaled on suitable impaling pins, and the objects of my invention are to provide means for attaching a plurality of filing pins with filed material thereon together, so that the whole may form one continuous file which may be separated if desired at the juncture between the separate filing pins.

Further objects are to provide improved means for binding a plurality of files together.

Further objects still are to provide improved means for indexing the different files when a plurality of files are bound together.

With these and other objects in view, the invention accordingly consists in the improved construction and arrangement of parts hereinafter described in detail in the accompanying specification and drawings.

In the drawings: Figure 1 is a perspective view of one form of the improved filing pin. Fig. 2 is a perspective view of an alternative form of the filing pin. Fig. 3 is a vertical section showing the connection of a plurality of pins of the form shown in Fig. 2. Fig. 4 is a perspective view of an alternative form of the filing pin. Fig. 5 is a plan view of the blank from which the filing pin illustrated in Fig. 4 is made. Fig. 6 is a perspective view of an alternative form of connecting member. Fig. 7 is a perspective view of the pin illustrated in Fig. 1, attached to a connecting member similar to the connecting member illustrated in Fig. 6. Fig. 8 is a perspective view of the connecting washer shown in Fig. 6. Fig. 9 is a sectional view showing a plurality of pins of the form shown in Fig. 1, connected together. Fig. 10 is a view similar to Fig. 9 showing the use of a king pin.

In the drawings, like characters of reference indicate corresponding parts in each figure.

In general, the invention may be said to comprise an aperture or apertures formed on one pin adapted to receive the impaling members of another pin, said impaling members being conveniently locked by laterally turning the ends thereof.

In the embodiment illustrated in Fig. 1, the filing pin includes a head 10, circular in form, and integral impaling members 11 and 12 extending parallel with each other and spaced a short distance apart, said head being formed with a central aperture 13 through which the ends of the impaling members of another pin may be inserted and locked by turning laterally.

In the form shown in Figs. 2 and 3, two parallel apertures 14 and 15 are provided on opposite sides, the distance apart of the apertures being substantially equal to the distance apart of the impaling members, the several pins when interlocked appearing as in Fig. 3, interlocking being effected by inserting the ends of the impaling members on one pin through the apertures on the head of the pin to which it is to be attached.

The form shown in Fig. 1 has the advantage that a master pin may be inserted through a plurality of the filing pins to retain them all together, as shown in Fig. 10.

The pin shown in Figs. 4 and 5 has the head 35 formed both with a central aperture 36 and side apertures 37 and 38, the side apertures being adapted for the interlocking of one or more sections, and the central aperture being adapted to receive the impaling members of the master pin.

Fig. 9 shows a plurality of pins connected together without employing the king pin.

Fig. 10 shows a plurality of pins connected together and having a king pin 39 extending through the central apertures 13.

In the alternative form of connecting member shown in Figs. 6 and 8, a washer 51 is provided having a central perforation 52 adapted to slide over the impaling members of one pin and formed near the outside with parallel slots 53 and 54 through which the impaling members of another pin may be inserted and turned, the position of the washer in use being illustrated in Fig. 6. In some cases it may be desired to hold the impaling members rigidly spaced apart and this may be done by means of the washer 55 shown in Fig. 7, said washer having a central perforation 56 and outer parallel slots 57 and 58. After the impaling members are inserted through the material to be bound, they are inserted through the slot 57 and 58 and turned, and then the washer

will hold them rigidly together, while the central perforation will permit passage through a number of files of a master pin as illustrated in Fig. 10.

The filing devices herein illustrated are applicable for retaining any form of material together, and are not particularly limited to binding documents and the like, although they will possess particular utility for this purpose.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention, within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

1. A filing pin having impaling prongs adapted to be inserted through the material to be filed and to be secured thereto by bending of the extremities of the prongs, and means for receiving and holding any portion of the impaling prongs of another pin similar to said filing pin, whereby a plurality of sets of documents may be filed together.

2. A filing pin having spaced impaling prongs adapted to be inserted through the material to be filed and to be secured thereto by bending of the extremities of the prongs, and means for receiving and holding any portion of the impaling prongs of another pin similar to said filing pin, whereby a plurality of sets of documents may be filed together.

3. A filing pin having flexible impaling prongs adapted to be inserted through the material to be filed and to be secured thereto by bending of the extremities of the prongs, and means for receiving and holding any portion of the impaling prongs of another pin similar to said filing pin, whereby a plurality of sets of documents may be filed together.

4. A filing pin having impaling prongs and an apertured head adapted to receive and connect with the impaling prongs of another pin similar to said filing pin, whereby a plurality of sets of documents may be filed together.

5. A filing pin of the character described comprising a head having an aperture adapted either to receive the prongs of another pin or to receive a filing pin, and prongs integral with the head of the pin.

6. A filing pin of the character described comprising a head having an aperture adapted either to receive the prongs of another pin similar to said filing pin, or to receive the prongs of a longer king pin, and spaced parallel prongs integral with the head of the pin.

7. A filing device including a head and two integral impaling members extending parallel with each other, said head being formed with a central aperture and a locking washer having a central aperture and other apertures to receive the impaling members and retain them in spaced position.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

PETER MacGREGOR.

Witnesses:

RUSSEL S. SMART,

PEARLE GARRON.