R. A. BACON.

ADJUSTABLE FILE HANDLE.

APPLICATION FILED JAN. 20, 1908.

905,132. Patented Dec. 1, 1908.

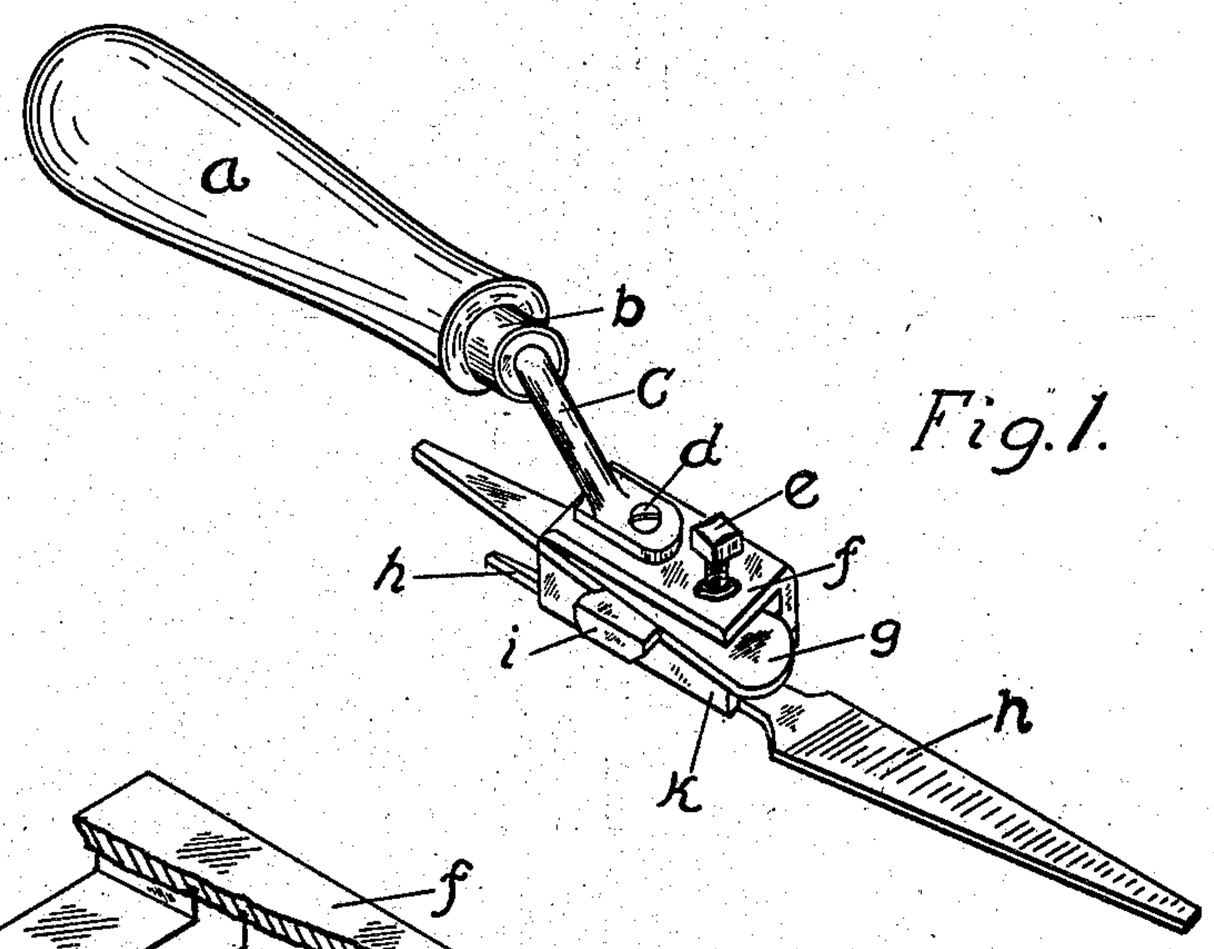

Fig. 1.

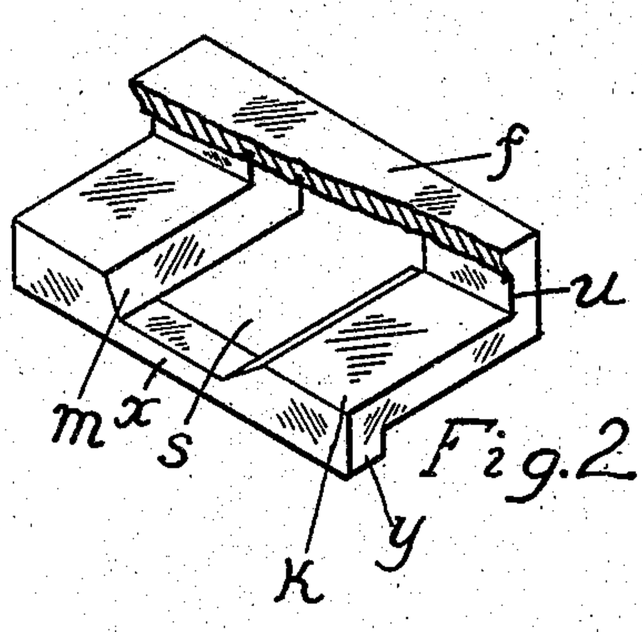

Fig. 2.

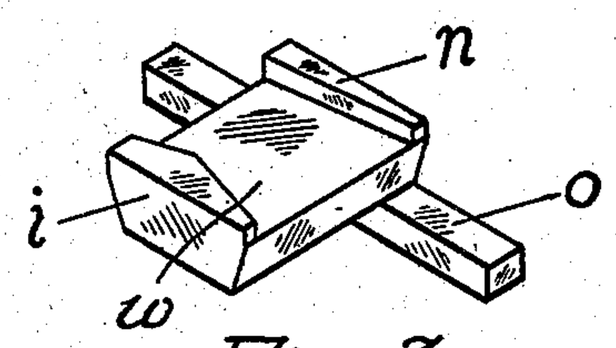

Fig. 3.

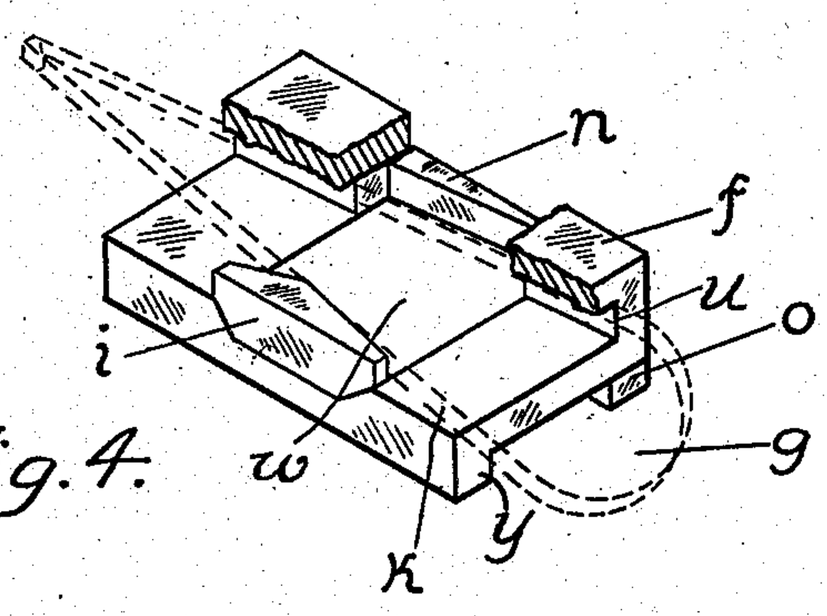

Fig. 4.

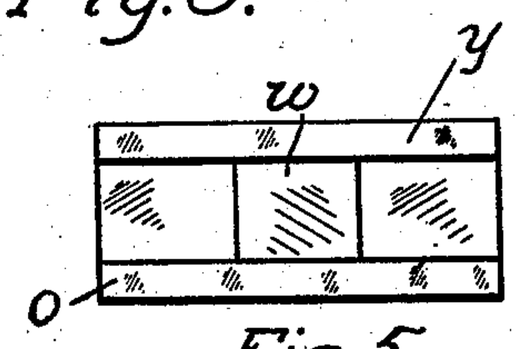

Fig. 5.

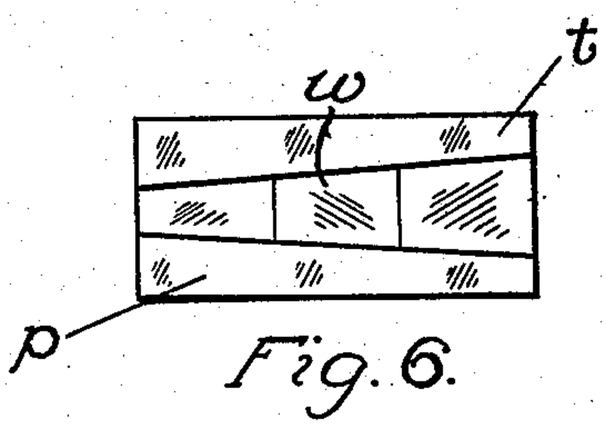

Fig. 6.

WITNESSES:

H. B. Burr.

A. D. Young.

INVENTOR

R. A. Bacon

BY

G. B. Kennedy.

ATTORNEY

UNITED STATES PATENT OFFICE.

RICHARD A. BACON, OF WATERLOO, IOWA.

ADJUSTABLE FILE-HANDLE.

No. 905,132. Specification of Letters Patent. Patented Dec. 1, 1908.

Application filed January 20, 1908. Serial No. 411,864.

To all whom it may concern:

Be it known that I, RICHARD A. BACON, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Adjustable File-Handles, of which the following is a specification.

My invention relates to improvements in adjustable file-handles, and the object of my improvement is to provide a handle with suitable adjustable clamp-members adapted to hold a file or similar tool, with proper means for securing the clamp-members in a desired adjusted position. This object I have accomplished by the means which are hereinafter described and claimed, and which are fully illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of my adjustable file-handle showing it as adjusted to and secured to one end of a file. Fig. 2 is an enlarged detail perspective view of the wedge slideway, part of same being shown as sectioned away to better disclose the construction of its lower member. Fig. 3 is a detail perspective view of the movable clamp-member of the file-holder. Fig. 4 is a detail view of the slideway with the said movable clamp-member seated therein. Fig. 5 is an under plan view of the holder, showing the clamp-members having parallel interior holding-faces. Fig. 6 is an under plan view of a holder wherein the inner holding faces of the clamp-members have their lines of direction inclined to each other.

Similar letters refer to similar parts throughout the several views.

The handle *a* is socketed at one end to receive a sleeve *b*, the latter holding the shank-piece *c* which is secured to the upper rear part of the slideway *f* by means of a screw *d*. The slideway *f* is composed of two members separated by a space *u* for the reception of the adjusting wedge *g*, the members being connected on one side only by separated connections. The upper member *f* has a vertical threaded orifice to receive a set-screw *e*, the latter adapted to have its lower end engage the upper surface of the wedge *g* when screwed down against it. The lower member of said slideway has a transverse slot *s* to receive the movable member *w*, such lower member having parallel abutments *k* and *m* with inward sloping sides to coincide with the sloping sides of said movable member. The abutments are connected by a bar *x*. The slot *s* is used to receive the movable member *w*, the latter being adjustable transversely therein in the slideway-body *f*.

As shown in Fig. 3 the movable member *w* has on its under surface a projecting clamp-member *o* spaced away from and adjustable relatively to the oppositely placed fixed clamp-member *y*, the latter being the whole of which the middle-connection *x* forms a part. The movable member *w* has two separated upwardly-projecting longitudinal clips *i* and *n* having inwardly converging inner faces, the space between said faces coinciding with part of the space between the fixed members *f* and *k*, and adapted to receive the wedge *g*.

In Fig. 5 the clamp-members *y* and *o* have parallel inner faces to receive any body with parallel sides, while Fig. 6 shows a modification wherein the inner faces of the clamp-members *t* and *p* are adapted to grasp a body having converging sides, such as the rat-tailed file *h* shown in Fig. 1. Any other tool, such as a scraper, may be held by said means, when of suitable form to be received by the clamping-members, but I do not intend to be understood as limiting my invention to any particular configuration of the inner faces of the clamping-members, since such faces may be varied to conform to the outer shape of the body to be held between them.

When the movable member *w* has been introduced within the slot *s*, and the wedge *g* within the inner space between the upper and lower members of the holder and the coinciding space between the clips *i* and *n*, after a body such as the file *h* has been introduced between the clamping-members *y* and *o*, the movement inward of the wedge causes it to, by its contact with both the clip *i* and the inner portion of the connection between the upper and lower members of the slideway *f*, draw the clamping-members *y* and *o* together thus causing the latter to exert a clutch on said file, in which position the clamp-members are secured and held in place by screwing down the set-screw *e* upon the upper surface of said wedge. A slight rotation of the set-screw in the reverse direction, permits the easy displacement of the wedge, thus releasing the clutch of the clamping-members upon the body held between them.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. An adjustable tool-handle, comprising in combination, a body having both transverse and longitudinal slideways, said body having a depending clamp-member, a clip slidable in the transverse slideway of said body and provided with a depending clamp-member, a wedge slidable in said clip and in the longitudinal slideway of said body, and means for detachably securing said wedge to said body.

2. An adjustable tool-handle, comprising in combination, a body provided with a projecting handle and having both transverse and longitudinal slideways, said body having a depending clamp-member, a clip slidable in the transverse slideway of said body and provided with a depending clamp-member, a wedge slidable in said clip and in the longitudinal slideway of said body, and a set-screw movable through an interiorly-threaded orifice in said body and adapted to detachably engage said wedge to hold it in a desired adjusted position in its said slideway.

Signed at Waterloo, Iowa, this 30th day of Dec. 1907.

RICHARD A. BACON.

Witnesses:
GEO. C. KENNEDY,
O. D. YOUNG.