

A new or improved implement for cutting, paring, filing and performing like operations on the nails, corns and the like / [Ernst Kaufmann].

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COMPLETE SPECIFICATION.

"A New or Improved Implement for Cutting, Paring, Filing and Performing like Operations on the Nails, Corns and the like".

I, ERNST KAUFMANN of 30 Rheinstrasse Solingen in the Empire of Germany, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 The present invention relates to a new or improved implement for cutting, paring, filing and performing like operations on the nails, corns and the like, and has for its object to provide an extremely handy device more particularly adapted for the care of the finger and toe nails, and for removing hardened skin (corns) from the feet, and which is at the same time capable of being readily carried in a small pocket in a
10 garment. To this end, a nail cutter is provided with a nail file and nail cleaning implement, with a knife blade and the like.

In the accompanying drawings which illustrate—by way of example—two methods of carrying the invention into effect.

15 Figures 1, 2 and 4 are views in front, back and end elevations respectively of the implement in the closed state.

Figures 3, 5, 6 and 7 are views of the implement with its parts in various positions.

Figures 8, 9 and 10 are broken detail views on an enlarged scale, and

20 Figures 11, 12 and 13 are views in front elevation—partly in section, back and end elevation respectively of a modified form of the implement.

Throughout the views similar parts are marked with like letters of reference.

The nail cutter proper consists of the two legs *t* and *l* which are provided with bent-over and tapered cutting faces *x* and *y*. The leg *l* is preferably made elastic, or in a spring like form. The nippers-like jaws *x* and *y* may be adapted, when moved towards
25 each other, to abut or close on to each other, or as shown in Figure 4, to overlap each other. The two legs near their lower ends are connected together by a pin *s*, and are situated in a prism-shaped box to one wall *e* of which the leg *t* is rigidly connected by the studs *a* and *b*. The stud *b* also forms the pivot of a knife blade *d* which is acted on by a spring *g* that is itself rigidly fixed to the wall *e* by means of the stud *c*
30 (Figure 7). Opposite the wall *e* is a part *f* which may be designated as the lid of the box; this part *f* is pivoted on the stud *r*. This part is preferably formed as a file and provided with a nail cleaning device. The head of the part *f* which is pivotted on the stud *r* is so shaped or so pivotted as to act as an eccentric whereby the said head will move the elastic leg *l* towards the fixed leg, when the part *f* is moved out of the
35 position shown in Figure 3 into the position shown in Figure 4, and *vice versa*.

That end of the part *f* which carries the nail cleaning implement, is provided with the closing device that holds the said part in the position shown in Figure 4. The closing device consists of a small sliding piece *z* the point of which is pressed into a recess *v* in the bottom *z* of the box. The sliding piece *z* is connected by means of a
40 pin *m* with a head *k* that is formed on the outer side of the part *f*. This pin *m* is guided in the recess *g* in the part *f* (Figures 8, 9 and 10). A further guidance is

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A New or Improved Implement for Cutting, Paring, &c., Nails, Corns and the like.

effected by arranging a stud *n* so as to project from the point of the part *f* into a slot *p* in the sliding piece *z*.

If the head or knob *k* (Figure 4) be pushed in the direction of the cutting faces *x* and *y*, the point of the sliding piece *z* will move out of its recess *v*, and the leg *l* will now by reason of its elasticity force open the part *f* (Figure 3). The implement in this position can then be used as a nail cutter. If the part *f* be opened into the position shown in Figure 5, in which it is quite fixed, then the implement can be used for filing the nails after they have been cut.

Figure 7 shows the manner in which the implement may also be used as an ordinary knife. It is obvious that the bottom *i* can also be utilized for some purpose, such as a seal, polishing surface or the like.

In order to render the action of the nail cutter more effective, the catch or device for locking the file may also be so arranged as to provide means for transforming the leverage of the file into a comparatively powerful force acting upon the elastic leg *l*.

For this purpose the bottom *i* of the form of implement shown in Figures 1 to 10 is removed, and in its stead there is provided a sliding part *v*¹ (see Figures 11 and 13) having L-shape in cross section. This part carries on its shorter leg a knob *k*¹ for the purpose of more readily operating the same. The longer leg of the sliding part *v*¹ is formed approximately of an I-shape and has a slot *h* by means of which the sliding part is guided on a stud *w*. The stud *w* serves to attach a small plate *q*¹ on the leg *l* in such a manner as to allow one leg of the part *v*¹ and another sliding part *p*¹ to move between the leg *l* and the small plate *q*¹. The sliding part *p*¹ embraces the I-shaped leg of the part *v*¹ in such a manner that it is moved along by the part *v*¹ in certain positions of the latter. Further the sliding part *p*¹ is provided with a thickened border at its end which is bent away somewhat.

When the implement is closed, the point of the part *f* projects into the recess in the L-shaped part *v*¹. If the knob *k*¹ be pressed downwards (in the direction of the arrow) the part *f* will be forced out by reason of the elasticity of the leg *l*. Then if the part *v*¹ be again pushed upward contrary to the direction of the arrow, and beyond the initial position, then the plate *p*¹ will be moved therewith, and its thickened border or edge will be pushed under the pivotal point of the part *f*. It is obvious that this will increase the ratio between the power exerted at the part *f* and that exerted between the cutting faces *x* and *y* as compared with the arrangement first described.

The locking of the file in the closed position, is effected by a corresponding moving back of the part *v*¹.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

(1) An improved implement for the care of the nails and the like, comprising a nail cutter provided with nippers-like jaws arranged in a case, the one jaw fixed to said case and the other attached to or forming an elastic leg adapted to be operated by an eccentrically shaped or disposed part of a lever which lever is pivotted to said case and forms a lid therefor.

(2) An implement as specified in Claim 1, in which the part forming the lid of the case is kept in a closed position by means of a sliding part on said lid adapted to take into a suitably shaped recess formed in the bottom of the case.

(3) An implement as specified in Claim 1, in which the part forming the lid of the case is held in a closed position by means of an adjustable sliding part one leg of which acts upon a sliding piece in such a manner that when the lid of the case is open, a thickened border or edge formed on said sliding piece comes under the plane of the rolling movement of the head of the lid, for the purpose of increasing the leverage of same.

A New or Improved Implement for Cutting, Paring, &c., Nails, Corns and the like.

(4) In an implement as specified in Claims 1, 2 and 3 forming a nail filing and cleaning implement in one with the part forming the lid of the case.

(5) In an implement as specified in Claims 1, 2 and 3 the combination therewith of a knife blade pivotted to said case.

5 (6) The improved implements for cutting paring filling and performing like operations on the nails, corns and the like constructed and arranged substantially as herein described.

(7) The improved implements constructed and arranged substantially as hereinbefore described and illustrated on the accompanying drawing.

10 Dated this 14th day of October 1902

PHILLIPSS.

Chartered Patent Agents 70, Chancery Lane, London, W.C.
Agents for the Applicant.

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(v) The Committee has recommended that the following steps be taken to improve the efficiency of the Government:

(w) The Committee has recommended that the following steps be taken to improve the efficiency of the Government:

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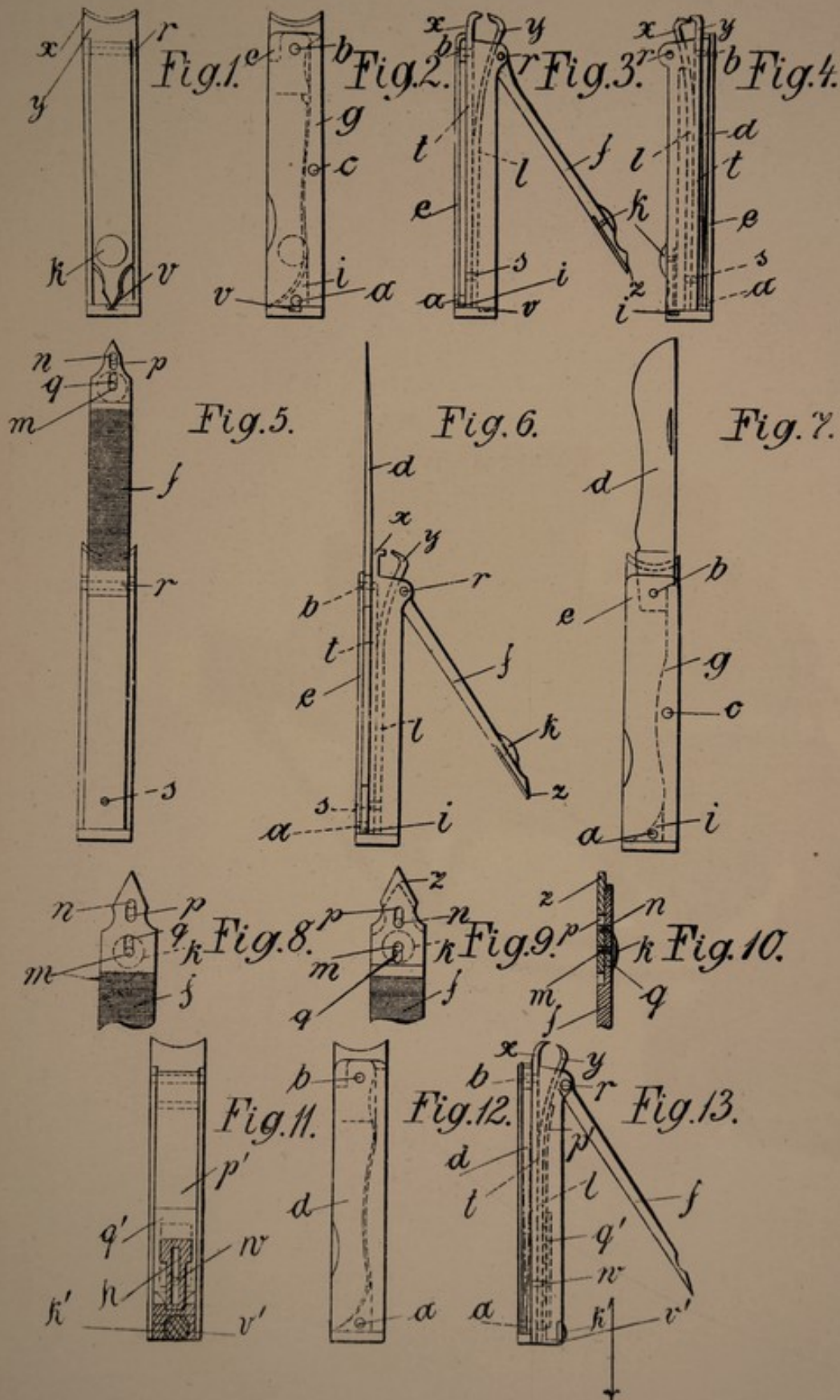
Very truly yours,

WILLIAM H. HARRIS

Chairman, Federal Bureau of Investigation, Washington, D.C.

Enclosure

This document contains information which is exempt from public release under the provisions of the Freedom of Information Act, 5 U.S.C. 552.



[This Drawing is a reproduction of the Original on a reduced scale]

