Aug. 19, 1969 J. MORRISION 3,461,469

MULTIPURPOSE TOOLS AND WALLET HOLDERS THEREFOR

Filed June 24, 1966 2 Sheets-Sheet 1

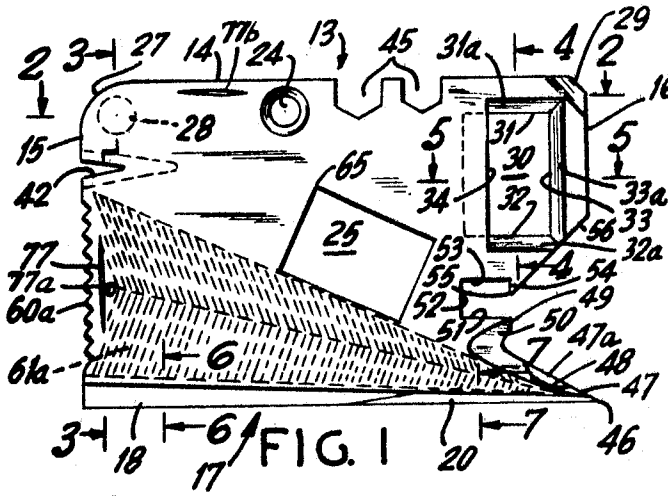


FIG. 1

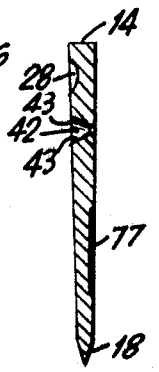


FIG. 3

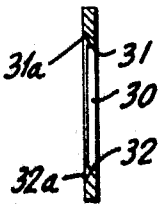


FIG. 4

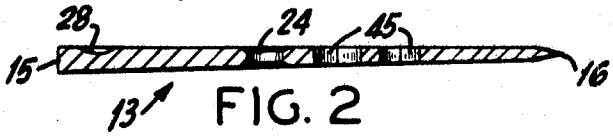


FIG. 2

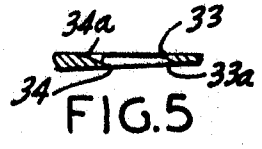


FIG. 5



FIG. 6

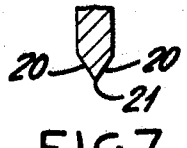


FIG. 7

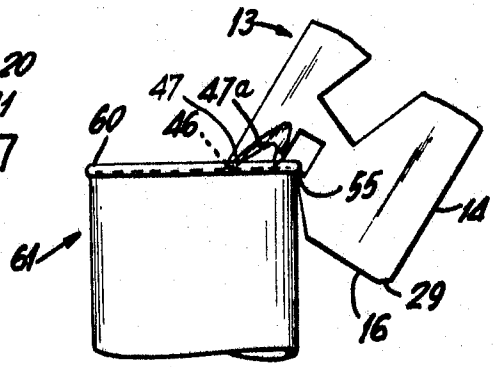


FIG. 8

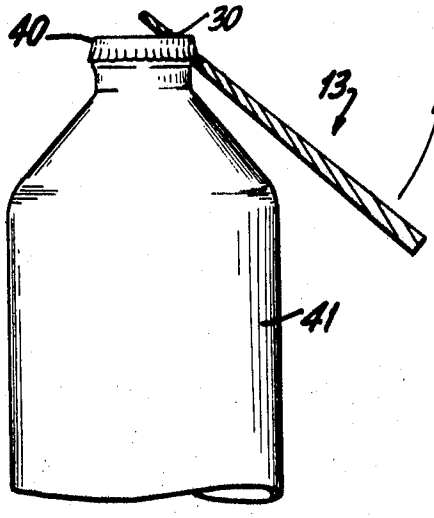


FIG. 9

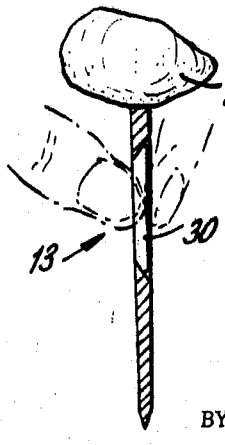


FIG. 10

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MULTIPURPOSE TOOLS AND WALLET HOLDERS THEREFOR

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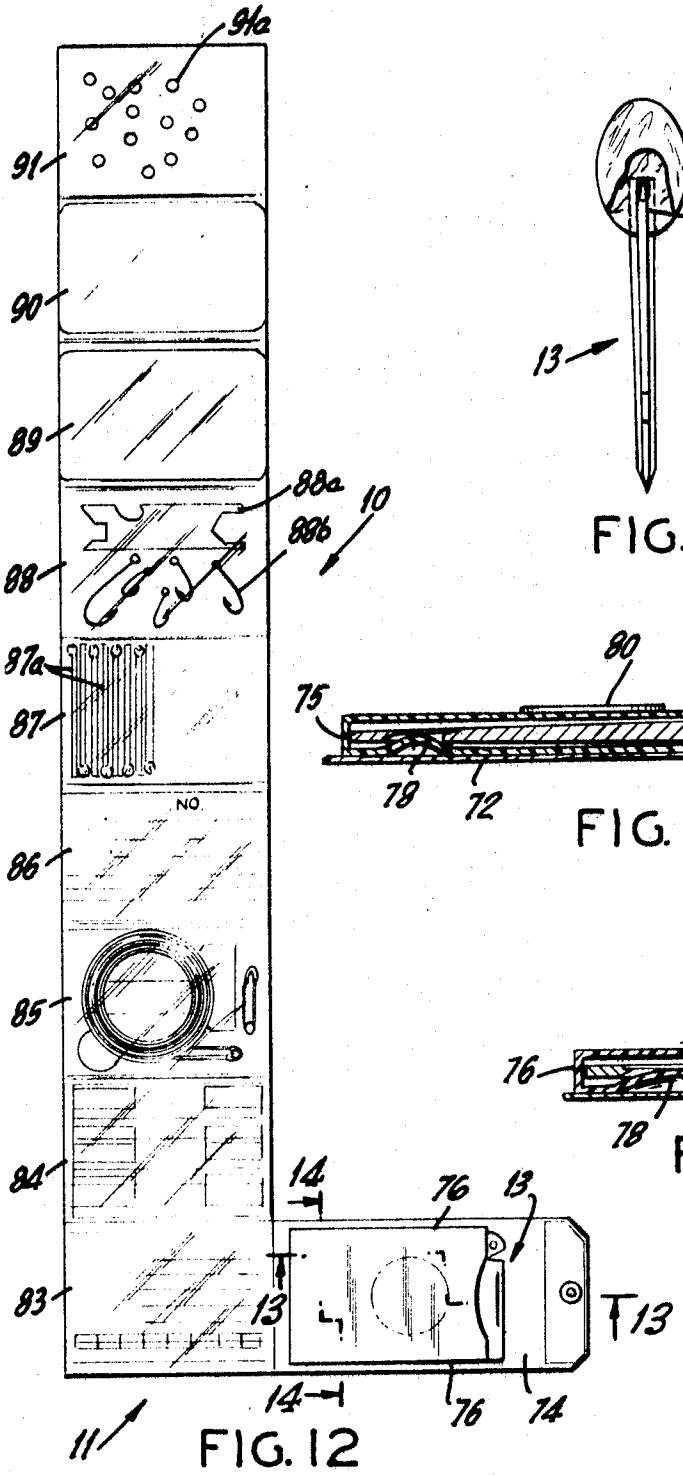


FIG. 12

FIG. 11

FIG. 13

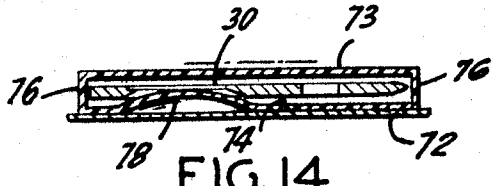


FIG. 14

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MULTIPURPOSE TOOLS AND WALLET HOLDERS THEREFOR

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Int. Cl. B26b *11/00*; B67b *7/44*
U.S. Cl. 7—14.25 20 Claims

ABSTRACT OF THE DISCLOSURE

The tool comprises a substantially rectangular, flat plate formed with a wedge having a first inclined edge adjacent its lower edge extending to a notch connected to an end edge of the plate by a second inclined edge. The plate is formed with a pointed wedge at one end of the notch. The notch comprises a wrench opening. The first inclined edge is a cutting edge. The lower edge of the plate is a cutting edge. The plate is also formed with a rectangular opening having inner edges parallel to an end edge of the plate. A corner formed at the junction of an end edge and a side edge of the plate, comprises a screw driver edge. A face of the plate is formed with an inwardly curved recess for pressing down against heads or nails. The plate is formed with a second opening having parallel edges inclined to the end edges of the plate. A corner of the second opening is located at a point where the plate may hang at a balance with its upper edge in horizontal position. One of the end edges of the plate is formed with a V-shaped notch having a bevelled surface for prying up nails and tacks. One surface of the plate is formed with a serrated filing surface and also with a serrated match striking surface. The plate is snugly and slidably received in a rectangular pocket of a wallet. The plate is made of magnetized steel. The first inclined edge is formed with a hooked sharpened edge portion extending from the first inclined edge.

This invention relates to multipurpose tools and wallet holders therefor.

An object of this invention is to provide a single tool of the character described, with means to enable it to be used for the following among other uses:

(1) For cutting as with a knife
(2) To cut and open cans such as beer cans, and food cans
(3) To penetrate, puncture and punch holes in belts or leather
(4) To open bottle caps, and as a fish lure
(5) To serve as a wrench for various size nuts, bolts or screws
(6) To serve as a mirror
(7) To serve as a screw driver
(8) To serve as a signaling device by means of light rays
(9) To serve as a compass
(10) To pull up nails or tacks and to bend and strip wire
(11) To drive nails or needles
(12) To cleave objects, and for use as a gutting hook
(13) To scale fish and apply cement or adhesive
(14) To be used as a file and for striking matches.

Another object of this invention is to provide a wallet type holder for a tool of the character described, comprising a pocket to receive the tool, and said tool being provided with a groove for insertion of a finger nail therein to pull the tool out of the pocket; means being provided to hold the tool within the pocket, and said wallet being provided with a plurality of foldable wallet pockets, including pockets to carry water purifying pills,

fish hooks, matches, fishing lines, safety pins, needles, strips of lead, hair pins, fishing flies, a needle threader, band aids, identification cards and like survival articles.

Yet a further object of this invention is to provide a tool of the character described, formed with a hole through which the fingers of the users may be inserted to hold the tool when being used, and said tool being reducingly tapered from one side to the other, and from the top down, and being formed with a hole through which a filament may be passed, and on which the tool will balance and turn towards the magnetic North Pole (if the tool is magnetized).

Yet a further object of this invention is to provide a tool of the character described, provided with a longitudinal cutting edge having different tapers along different longitudinal edge portions thereof.

Yet another object of this invention is to provide a tool of the character described, with a backing handle formed with a slot to receive an edge of the tool, to facilitate handling of the tool in use. The tool embodying the invention may be used as a hunting knife or as a survival tool and may be made of stainless steel with a chrome finish, said tool having at least two edges forming right angles to one another so that it can be used for measuring a right angle. The tool helps to keep the wallet in shape and since it can be kept in the wallet, it will not wear holes in a coat pocket. This tool may be used by pilots, by pack carriers on expeditions, by astronauts and may be used by many others as an every day utility tool.

A further object of this invention is to provide strong, rugged and durable devices of the character described, which shall be relatively inexpensive to manufacture, light in weight, easy to manipulate and which yet shall be practical and efficient to a high degree of use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of invention will be indicated in the following claims.

In the accompanying drawing, in which is shown an illustrative embodiment fo this invention,

FIG. 1 is a top plan view of a survival tool embodying the invention;

FIG. 2 is a cross-sectional view taken on line 2—2 of FIG. 1;

FIG. 3 is a cross-sectional view taken on line 3—3 of FIG. 1;

FIG. 4 is a cross-sectional view taken on line 4—4 of FIG. 1;

FIG. 5 is a cross-sectional view taken on line 5—5 of FIG. 1;

FIG. 6 is a cross-sectional view taken on line 6—6 of FIG. 1;

FIG. 7 is a cross-sectional view taken on line 7—7 of FIG. 1;

FIG. 8 is a side elevational view illustrating the cutting of the top of a can;

FIG. 9 is a side elevational view with the tool in cross-section, illustrating the use of the tool for prying open a bottle cap;

FIG. 10 is a cross-sectional view of the tool illustrating the use of the tool as a cleaver when striking it with a rock or similar article;

FIG. 11 is an end view of the tool with a handle mounted thereon;

FIG. 12 is a top plan view of a wallet and tool embodying the invention and with the wallet opened up;

FIG. 13 is a cross-sectional view taken on line 13—13 of FIG. 12; and

FIG. 14 is a cross-sectional view taken on line 14—14 of FIG. 12.

Referring now in detail to the drawing, **10** designates a device embodying the invention and comprising a wallet **11** in which is mounted a tool **13**. The tool **13** may be made from stainless steel or other suitable material, and its opposite sides may be chrome plated or polished to provide a mirror surface on either one or both sides. Said tool **13** is generally rectangular in shape and has a top or upper longitudinal edge **14** with end edges **15** and **16** and a lower or bottom edge **17**. Edges **15** and **16** are at right angles to the edge **14**. The tool tapers down from left to right and from top to bottom, looking at FIG. 1, said tapered surfaces being symmetrical at opposite sides of the tool with respect to a vertical plane through the longitudinal mid-section of the tool. Thus each side of the tool has pyramidal surfaces with the apex at the corner formed by the edges **14** and **15**. The edges **16** and **17** form the base of such pyramidal surfaces. The lower edge **17**, however, has a bevelled cutting edge **18** at its left end, forming a sharp cutting edge **19**, and bevelled surfaces **20** at its right end forming a fine cutting edge **21**. The bevelled surfaces **18** form a smaller angle than the bevelled surfaces **20**. Said tool **13** may be formed with a through opening **24** near the upper edge **14** so located that if a fine filament is put through said opening, the tool will balance on said filament with the top edge horizontal. The tool may be magnetized so that if a filament is passed through the opening **24** and the tool balanced on such filament, said tool will point towards the magnetic North Pole.

Since the tool is polished or chrome plated it may be used as a mirror. It is formed with a rectangular opening **25** at a diagonal angle. Thus the tool may be used as a signalling device and light reflector. The opening **25** may be rectangular in shape and the tool may be held for use, by putting the fingers through the opening **25**, as shown in FIG. 10. When fingers are put through the opening **25**, the tool may be held and used as a cleaver. A rock **26** or mallet or stick of wood may be used to strike against the upper edge **14**. The corner formed by the edges **14** and **15** may be rounded as at **27**. At one face of the tool, adjacent to the rounded edge **27**, is a circular curved cavity or depression **28**. With this construction nails or needles may be pressed down into wood or other objects by the use of the tool. At the corner formed by the corners **14** and **16** of the tool, is a bevelled diagonal edge **29** to enable the tool to be used as a screw driver.

The tool may be also formed with a second rectangular opening **30**. Edge **31** of opening **30** is parallel to edge **14**. An opposite edge **32** is parallel to edge **31**. Another edge **33** is parallel to edge **16**. The hole **30** has an edge **34** parallel to edge **33**. At one surface of the tool the edges **31, 32** and **33** are bevelled upwardly and outwardly as at **31***a*, **32***a*, **33***a*. At the opposite side, edge **34** is bevelled downwardly as at **34***a*. Thus bevelled surfaces **34***a*, which extends from edge **34**, and bevelled surfaces **33***a*, which extend from edge **33** are parallel. Bevelled surfaces **31***a* and **32***a* extending from edges **31** and **32** are bevelled in opposite directions and towards the upper surface of the tool. With this construction the tool **13**, as shown in FIG. 9, may be used for prying open caps **40** of bottles **41**.

The tool is provided with means at one end for prying open nails or thumbtacks. To this end, the tool is formed at its edge **15** with a V-shaped notch **42** having bevelled surfaces **43** at opposite sides of the notch. Thus, the tool may be slipped under the head of a tack, with the head of the tack engaging the bevelled edges **43**, for prying open the tack.

Said tool, in the edge **14** thereof, may be formed with a plurality of wrench notches **45** of various sizes, for turning a hex head bolt or screw or a hex nut or a square head or nut.

Said tool is furthermore formed at one corner with a sharp first point **46** at one end of edge **17**, and with a cutting edge **47** forming an acute angle therewith. Edge **47** is inclined upwardly and toward end edge **15**. Opposite sides of the cutting edge **47** are bevelled as at **48**. Extending from the edge **47** is a hooked second point **49** pointing toward edge **16**. The bevelled surfaces **48** merge with bevelled surfaces **50** which extends to the second point **49**. Thus the tool has a cutting edge extending from point **49** to cutting edge **47**. Extending from the point **49** is an edge **51** parallel to the lower edge **16** of the tool. Extending upwardly from the end of edge **51**, at right angles thereto, is an edge **52**. Extending from the upper end of edge **52**, is an edge **53**. Extending from the outer end of the edge **53**, toward the edge **17** is an edge **54** terminating at a thid point **55**. Extending from the third point **55** is an upwardly and outwardly inclined edge **56**. Edge **56** is inclined toward the edge **16**. With this construction the tool may be used to cut tops of beer cans, as illustrated in FIG. 8. The upper rim **60** of can **61** is engaged by the third point **55** of the tool. The tool is then moved in a counterclockwise direction, looking at FIG. 8, and the edge **47** will cut the top of the can radially. Several cuts forming an apex may be made, and then the pie shaped portion between the radial cuts may be pushed down with the tool by pressing the point **46** down against said pie shaped portion.

The device may also be used as a food can opener and may also be used to remove the entire top of such cans. This may be done by cutting a series of cuts following the outline of the inner rim of the can all around.

The tool, at edge **15**, may be formed with a serrated edge portion **60***a* for removing fish scales or for spreading cement or adhesive. Thus, the tool may be used as an applicator. The serrated edge **60***a* may be located between the notch **42** and the edge **17**. It will be noted that the open hole formed by the edges **51, 52, 53** and **54** provides a wrench opening. The point **46** may be used to penetrate or punch holes in belts or leather.

At the undersurface of the tool, shown in FIG. 1, a triangular portion may be formed with a serrated file surface **61***a*. Thus the tool may be used for filing and a match may be struck by rubbing against the file surface. The file surface **61***a* is located between the opening **25** and the bevelled edges **18, 20**. The file surface may comprise serrated edges in a herrinbone shape with the apices running toward the right end of the tool, as shown in FIG. 1.

If desired, one point **65** of the rectangular opening **25** will be located at the balance point of the tool so that a hair or any fine filament may be placed through the hole **25** and engaged with the corner **65** so as to balance the tool on the filament. When the tool hangs in balance the tool (if magnetized) will swing towards the magnetic North Pole, as shown in FIG. 11.

A wooden or plastic handle **65***a* may have longitudinal groove **66** to fit the upper edge portion **14** of the tool. The tool may wedge into said groove to facilitate handling and holding of the tool when in use. This handle **65***a* is removable.

When the handle is removed, the tool may be inserted into a pocket member **70** fixed in the wallet **11**. The wallet **11** may comprise a leather or plastic elongated back sheet **72**. The pocket **70** may have a top wall **73** and a bottom wall **74** (adhered or otherwise attached to a strip **72**). The top and bottom walls **73, 74** may be interconnected by an end wall **75** and side walls **76**. The pocket is open at one end and the tool **13** is inserted through the open end. One face of the tool may be formed with a groove **77** parallel to and close to the serrated edge **77**. To withdraw the tool, the top wall **73** is pushed up a little, and then a fingernail can be put into groove **77** to pull out the tool. The bottom wall **74** of the holder may have an upwardly recessed portion **78** which may project into the hole **30**, to keep

the tool in the holder. A magnet **80** placed on a top wall **73** will attract the tool by magnetism so as to also help keep the tool from accidentally sliding out of the pocket.

The back sheet **72** extends beyond the holder **75** and carries a series of foldable transparent plastic pockets **83, 84, 85, 86, 87, 88, 89, 90** and **91** at right angles to said back sheet. These pockets may be folded accordion fashion to overlie the bottommost pocket **83** which is on the back sheet **72**. Various articles to be used for survival or for use by a hunter or other people, may be placed in the pockets. Thus pocket **91** may contain water purifying pills **91***a*. Identification cards may be placed in pockets **90, 86** and **83**. Pocket **88** may contain a small tool **88***a* and fish hooks **88***b*. Pocket **87** may contain matches **87***a*. Pocket **85** may contain fishing line, safety pins, needles, strips of lead, hair pins, fishing flies and a needle threader. Bandaids may be placed in pocket **84**. The edge **16** may also be sharpened like a blade to provide a cutting edge, if desired.

Holes **25** and **30** may also serve as a wrench.

It will be noted that the cutting edge **47** may have an intermediate portion **47***a* which is either flat, more blunted or less sharp than portions of edge **47** on opposite sides thereof. The purpose of the hook **50** with the flat or blunted part **47***a* is that when you gut an animal or open a package with the use of this tool, this construction prevents the material being cut from slipping out or off the cutting edge **47**. The material being cut will be retained within the hooked recessed cutting edge. The intermediate portion **47***a* of the inclined cutting edge **47**, is less sharp or more blunt than the remainder of the cutting edge **47**, to allow the material being cut to slip up into the recessed hooked cutting edge **50**. It will be noted that the point **49** is blunted as shown in FIG. 1. This blunted end **49** aids in preventing the material being cut to remain at the hooked recess, and also in can cutting as shown in FIG. 8. The tool may be generally said to comprise a plate. Said plate is formed with an opening **77***a* adjacent the groove **77**. The opening **77***a* extends through the plate. The purpose of the hole **77***a* is to attach a fishing line to the plate when it is used as a fishing lure. In such case the fishing hook may be passed through the hole **30** and attached at the point which is the junction of edges **32, 33** of said hole.

Said plate may also be formed with a finger nail inserting groove **77***b* similar to groove **77** used to extricate the plate from an envelope or enclosure.

When striking the plate with a rock or stick as shown in FIG. 10, it is preferable to hold the tool with the fingers passing through the hole **30**, with the fingers tightly pressed together but holding the tool lightly.

Thus the device may be used to good advantage by pilots, soldiers, air travelers, back packers, on expeditions, by hunters, fishermen, guides and other people.

It will thus be seen that there is provided an article in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth as shown in the accompanying drawings, is to be interpreted as illustrative and not in a limiting sense.

I claim:

1. A tool comprising a substantially flat plate having substantially parallel end edges and substantially parallel upper and lower edges, said plate being disposed substantially within the confines of a rectangle, the ends of which are along said end edges and the upper and lower sides of which are along said upper and lower edges of said plate, said plate having a first point disposed substantially at one end of said lower edge and substantially in line with one end edge of said plate, said plate being formed with a first inclined edge extending from said first point toward said upper edge and toward the opposite end edge and forming a first wedge, said plate having a notch formed with an inner edge having spaced ends, said plate being formed with a second point at one end of said notch, said second point being disposed opposite to the other end of said notch, and spaced therefrom said plate being formed with a second inclined edge extending from said second point toward said first end edge and toward said upper edge of said plate and forming a second wedge with an inner edge of said notch, said second wedge pointing toward said lower edge of said plate, said plate being formed with an opening located near said first end edge and disposed between said notch and said upper edge and having parallel edges, parallel to said end edges of said plate, said notch being disposed between the ends of the inner edge of said notch and said opposite end edge of said plate.

2. The combination of claim **1**, said inner edge of said notch comprising straight edge portions and said notch consituting a wrench hole.

3. The combination of claim **1**, a corner formed at the junction of said first end edge and said upper edge comprising a screw driver edge.

4. The combination of claim **1**, one face of said plate having an inwardly curved annular recess.

5. The combination of claim **1**, said plate being formed with a second opening having parallel edges inclined to said end edges.

6. The combination of claim **5**, one corner of said second opening being located at a point where the plate will hang in balance with its upper edge in horizontal position.

7. The combination of claim **1**, said plate being formed with an opening for reception of a filament, on which filament said plate may hang in balance with its said upper edge in horizontal position, and said plate being magnetized.

8. The combination of claim **1**, one of said end edges of said plate being formed with a V-shaped notch and with a bevelled surface extending to at least one of the edges of said notch, for prying up nails and tacks.

9. The combination of claim **1**, one surface of said plate being formed with a serrated file surface.

10. The combination of claim **7**, said last mentioned opening being rectangular in shape and having all its edges inclined to said end edges and to said upper and lower edges, and said plate having a tringular shaped serrated file portion on one surface thereof, having an edge parallel to an edge of said last mentioned opening.

11. The combination of claim **1**, said plate being tapered and decreasing in thickness from its upper edge toward its lower edge and from its first end edge toward its opposite end edge.

12. The combination of claim **1**, said lower edge being sharpened and constituting a cutting edge.

13. The combination of claim **1**, said first inclined edge of said plate having a cutting edge.

14. The combination of claim **1**, said plate being formed with a hooked edge extending from said first inclined edge and said hooked edge comprising a sharpened cutting edge.

15. The combination of claim **14**, said first inclined edge being sharpened to constitute a cutting edge.

16. The combination of claim **15**, a corner of said plate at the junction of an end and one of said upper and lower edges comprising a screw driver edge.

17. The combination of claim **12**, and said cutting edge at the lower edge of said plate having relatively more blunt and relatively less blunt longitudinal portions.

18. The combination of claim **16**, said plate being formed with an opening adjacent the other end edge thereof.

19. The combination of claim **18**, said plate being provided with a match striking serrated surface.

20. The combination of claim 1, said plate comprising steel.

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U.S. Cl. X.R.

7—17; 150—34, 35; 206—16, 38