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SHINGLE AND LINOLEUM KNIFE

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The invention relates in general to cutting instruments, and more particularly to a knife for cutting or trimming composition shingles or the like.

An object of the invention is to provide a knife which is of a proper and convenient shape for cutting and trimming composition shingles.

Another object of the invention is to provide a knife having a separable blade which is reversible so that one end can be pointed when the other end has become dull, the blade being preferably crescent shaped to facilitate trimming and cutting the shingles.

Another object of the invention is to provide a knife having a separable blade with provision for protecting the user from the end of the blade not in use.

Another object of the invention is to provide a knife of the above kind which is safe and convenient to use, simple and inexpensive to make and rugged and effective in construction.

These and other objects will be apparent from the following description and claims when considered with the accompanying drawings, in which:

Fig. 1 is a side elevation of one form of knife according to the invention;
Fig. 2 is a fragmentary end view showing in the direction of the line 2—2 in Fig. 1;
Fig. 3 is a section on the line 3—3 of Fig. 1;
Fig. 4 is a side elevation of a modified form of knife;
Fig. 5 is a section on the line 5—5 of Fig. 4;
Fig. 6 is a side elevation of another modified form of knife; and
Fig. 7 is a section on the line 7—7 of Fig. 6.

In the following description and in the claims parts will be identified by specific names for convenience, but they are intended to be as generic in their application to similar parts as the art will permit.

Like reference characters denote like parts in the several figures of the drawing.

In the drawing accompanying and forming part of this specification, practical commercial embodiments of the invention are shown, but as such illustrations are primarily for purposes of disclosure, it will be understood that the structure may be modified in various respects without departure from the broad spirit and scope of the invention as herein-after defined and claimed.

Referring now to the drawing, and more particularly to Figs. 1, 2 and 3, the knife comprises in general a handle 10, a blade holder 11 and a blade 12. The blade holder 11 has side walls 14 and 15 joined by a curved back wall 16, the side wall 14 having an extension or tang 13 passing into the body of the holder 10, through a metal collar or ferrule 22.

It will be understood that the holder 11 may conveniently be made from sheet metal bent or distorted to shape by a suitable die. It will be understood that the tang 13 is fastened to the handle 12 in any approved manner, the fastening element 21 being passed through the handle 10 and the tang 13 to assist in holding these members together.

Disposed within the recess in the holder 11, formed by walls 14, 15 and 16, is the knife blade 12. The blade 12 is preferably crescent shaped as indicated, having a convex back edge 18 which is preferably blunt, and a concave cutting edge 17 which is preferably sharp all the way from the point 19 to the point 20.

At a part of the blade 12, midway the points 19 and 20, a hole is provided through which is passed the fastening screw 23 which is preferably threaded into the wall 14 to rigidly hold the knife blade in the holder.

It will be noted that the blunt edge 18 snugly fits the curved wall 16 so that any rotary movement of the blade about the fastening element 23 is prevented. Furthermore, it will be seen that the parts of the walls 14 and 15 which extend beyond the unused part of the cutting edge 17 act to protect the user from the unused cutting edge.

Thus the it will be seen that the only part of the knife blade exposed is the part it is desired to use. The points 19 and 20 are sharp so that the knife can easily be thrust into the body of a shingle at any point and the shingle trimmed or cut to fit the roof or other surface to which it is applied. Furthermore, the entire extent of the cutting edge 17 is available for use all the way from the exposed point...
19 to the edge of the walls 14 and 15. When
the exposed part of the edge 17 and point 19
becomes dulled or nicked through use, it is
only necessary to take out the screw 23, re-
verse the blade and replace the screw 23.
If desired, the knife may take the form il-
lustrated in Figs. 4 and 5. In this construc-
tion the handle 30 is secured to the tang 25
which passes through the fulcrum 44 in any
desired manner, but preferably in a manner
similar to that described above.
The blade holder 31 comprises a side wall
34 having a curved back wall 36 and a
stamped up tongue 35. The blade 32 has a
convex, blunt back edge 42 and a curved front
edge which, if desired, may be made up of the
concave portions 37 and 38 which are sharp.
The concave edges 37 and 38 intersect at
point 39 and terminate in sharp cutting points
40 and 41. The screw 43 is provided for de-
tachably connecting the holder and blade.
The use of the knife shown in Figs. 4 and
5 is similar to that described above. The close
fit of the unused part of the cutting edge in-
dicated by 38 in the drawing, together with
the position of the tongue 35 and the position
of the point 41 at the end of the holder
or handle 50 serves to further protect the
user from the unused part of the cutting edge.
It will be understood that the blade 32 is re-
versible in this construction in the same man-
er as explained above and that the blade
32 is rigidly and immovably secured to the
holder by a screw 48 and the close fit of the
curved wall 36 and the back edge 42 of the
blade. It will also be understood that, if de-
sired, the blade of Fig. 4 may be used with
the holder of Fig. 1 and similarly the blade of
Fig. 1 may be used with the holder of
Fig. 4.
Referring now to Figs. 6 and 7 a knife
having a straight edged blade is shown.
This knife comprises a holder 60, a handle
51 and a reversible blade 52. The holder 50
comprises a back wall 53 and side walls 54
brought closer together at 55.
The blade 52 comprises end cutting por-
tions 56 with an intermediate fastening por-
tion 57, a screw 58 being passed through fast-
ening portion 57 and the back wall 53 to
hold the parts assembled.
The straight side edges 59 of the portions
56 may be sharp for cutting and, if desired,
the end edges 60 may also be sharp for cut-
ting or they may be blunt; in either case the
intersections of the edges 59 and 60 may be
sharp for thrusting in the body of a com-
position shingle or of linoleum.
It will be noted that the edges 59 and 60
which are not in use are spaced from the
holder 50 so that they are protected and kept
sharp. At the same time the position of the
unused end of the blade in the holder is such
that the user is protected from being acci-
didentally cut by the unused part of the blade.
It will be understood that the holder 50
has a tang 61 extending into the body of the
handle 61 and secured thereto in any desired
manner. The use of the knife will be obvi-
cous from the above description to those
skilled in the art.
Thus knives have been provided which are
most convenient for cutting shingles of com-
position material and the like. It will fit eas-
ily into small places and can be used effec-
tively to trim a shingle or other similar ar-
ticle to any desired curve or shape. Fur-
thermore, the devices are insured of long life
because, when one part of the blade becomes
dull, it can be reversed and the other part
used. In addition, the knives are safe to use
and the user is not liable to get accidentally
cut from the parts of the blade which are not in
use at the time.
While certain novel features of the inven-
tion have been shown and described and are
pointed out in the annexed claims, it will be
understood that various omissions, substitu-
tions and changes may be made by those
skilled in the art without departing from the
spirit of the invention.
What is claimed is:
1. In a knife for cutting shingles and the
like, a handle, a holder comprising a single
side wall and a convex back wall forming a
seat, said side wall having a part secured to
said handle, a substantially crescent-shaped
blade having a convex back edge and a con-
cave cutting edge, said edges terminating
at their remote ends in sharp points, said blade
reversibly fitting in said seat with its back
edge abutting the back wall of said holder,
a removable fastening element threading said
side wall and a part of said blade midway
said sharp points, and a projection said side
wall close to but spaced from the unused
part of the cutting edge to protect the user
therefrom, said blade being removable from
said holder in a direction perpendicular to
the plane of the blade.
2. In a cutting knife, the combination of a
crescent-shaped reversible blade with the in-
ner edge of the crescent forming the cutting
edge, a plate member for receiving and hold-
ingsaid blade, means for attaching said
blade to said plate member, an upstanding
curved wall member formed on the back edge
of said plate member for engaging the curved
back edge of said blade to hold it from
moving relatively to said plate member
during cutting operations, an upstanding
tongue on said plate member adjacent the
cutting edge of said blade to protect the user,
and a handle secured to said plate member.
3. In a knife for cutting shingles and the
like, a handle, a holder comprising a side wall
and a convex back wall forming a seat, said
side wall having a part secured to said handle,
a substantially crescent-shaped blade having a
convex back edge and separate adjoining con-
cave cutting edges whose remote ends terminate in sharp points, said cutting edges meeting at a central point midway between the ends of the blade, said blade reversibly fitting in said seat with its back edge abutting the back wall of said holder, a removable fastening element threading said side wall and the central part of said blade, and means for protecting the user from the unused part of the blade whereby the used part of said blade projects from said holder and the unused part of said blade is disposed alongside said side walls with its point adjacent said handle, said blade being removable from said holder bodily in a direction substantially transverse to the length of the blade.

In testimony whereof I have hereunto set my hand.

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