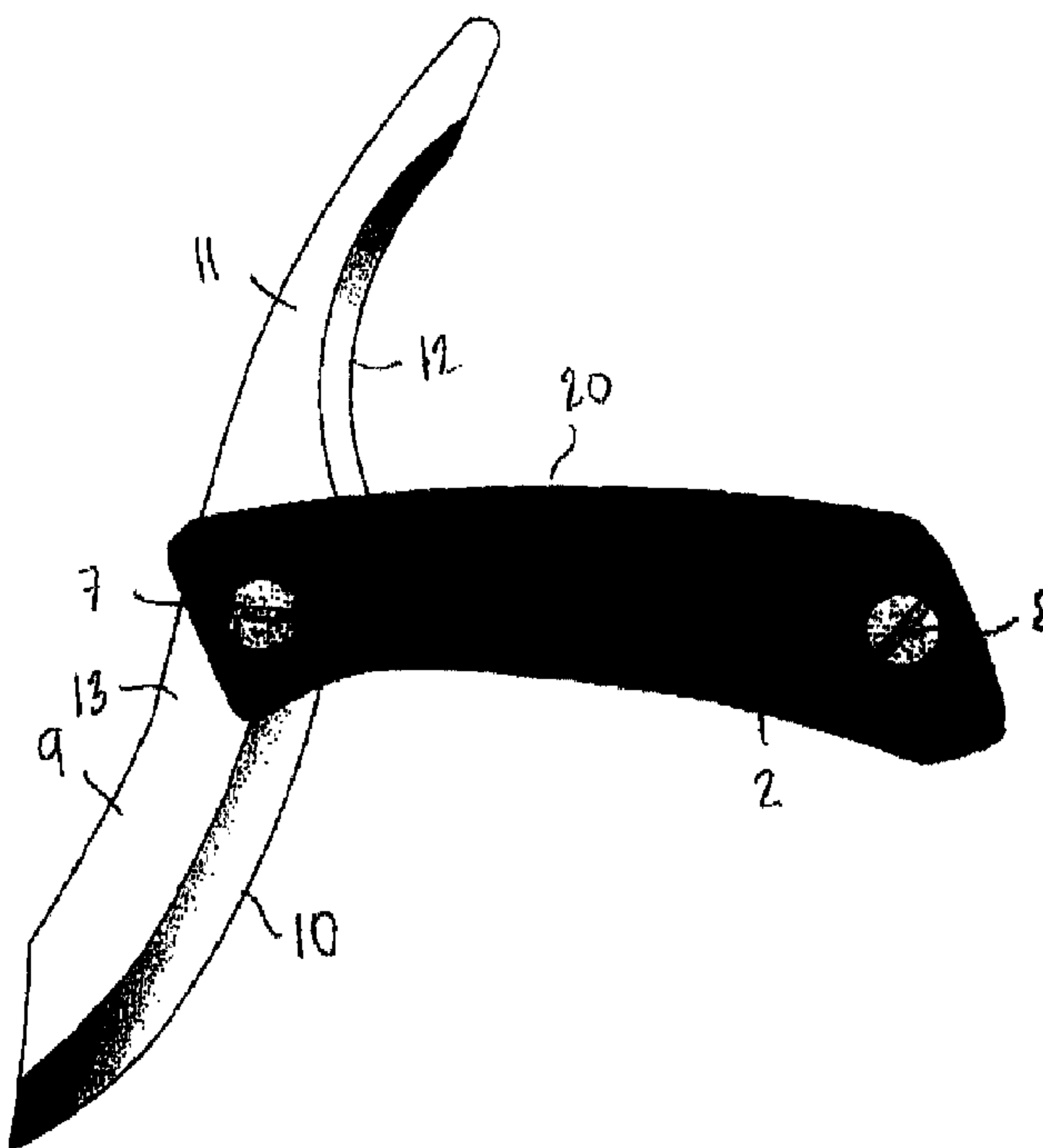




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(54) Title: COMBINATION KNIFE



(57) **Abrégé/Abstract:**

A combination knife for hunting purposes. The present invention relates to a combination knife intended primarily for hunting purposes, wherein the combination knife includes a common blade (9), which is common to two different blades (9; 11), each located on a respective side of a joint (14) which is mounted in a knife handle (20) and around which the common blade (13) can be rotated, and wherein the handle (20) has a length which corresponds to the length of respective blades (9; 11) from said joint (14) to the point or tip (15, 16) of said blades. The invention is characterised in that one blade (9) includes a conventional knife-acting cutting edge, while the other blade (11) includes a stomach opening blade (11) whose cutting edge (12) is situated on the upper side of the blade (11) in its use position; and in that the combination knife includes latching means (17, 18, 21; 24) for preventing further rotation of the common blade (13) relative to the handle (20) subsequent to having rotated the common blade (13) in a direction such that one of said two blades (9; 11) has been brought to a position of use; and in that the cutting edge (10) of the knife-acting blade and the cutting edge (12) of the stomach opening blade are situated on one and the same side of the common blade (13).

ABSTRACT

A combination knife for hunting purposes.

5 **The present invention relates to a combination knife intended primarily for hunting purposes, wherein the combination knife includes a common blade (9), which is common to two different blades (9; 11), each located on a respective side of a joint (14) which is mounted in a knife handle (20) and around which the common blade (13) can be rotated, and wherein the handle (20) has a length which corresponds to the length of respective**
10 **blades (9; 11) from said joint (14) to the point or tip (15, 16) of said blades.**

The invention is characterised in that one blade (9) includes a conventional knife-acting cutting edge, while the other blade (11) includes a stomach opening blade (11) whose cutting edge (12) is situated on the upper side of the blade (11) in its use position; and in
15 **that the combination knife includes latching means (17, 18, 21; 24) for preventing further rotation of the common blade (13) relative to the handle (20) subsequent to having rotated the common blade (13) in a direction such that one of said two blades (9; 11) has been brought to a position of use; and in that the cutting edge (10) of the knife-acting blade and the cutting edge (12) of the stomach opening blade are situated on one and the same side of**
20 **the common blade (13).**

COMBINATION KNIFE

The present invention relates to a combination knife, and more particularly to a hunting knife.

5
An animal killed on a hunting expedition is conveniently positioned so that desired parts of the animal, or quarry, can be removed on site. In this regard, the abdominal cavity of the animal is normally cut open and the animal's intestines then removed. There is typically used for this purpose a so-called stomach opening device, which is a knife-like tool that
10 includes a cutting edge on the upper side of the knife-acting blade. A stomach opener is used, because it is desired to avoid damaging the intestines. It is, of course, possible to use a knife instead of a stomach opener, but this is a more complicated operation.

However, when opening the stomach or abdominal cavity of an animal, a conventional
15 knife is also used in the majority of cases to cut away the animal's skin at certain places. One such place is the region around the animal's groins where tendons need to be severed.

This means that the hunter is required to handle both a stomach opener and a knife while, at the same time, having one hand free for gripping the skin or fur of the animal at the
20 stomach opening. This makes opening of the stomach difficult to achieve.

This problem is solved by means of the present invention by the provision of a combination knife.

25 The present invention thus relates to a combination knife intended primarily for hunting purposes, wherein the combination knife includes a blade, which is common to two different blades, each located on a respective side of a joint located in a knife handle and around which the common blade can be rotated, wherein the knife handle has a length
30 which corresponds to the length of respective blades from said joint to the tip of said blades, wherein the invention is characterised in that one blade includes a conventional knife-acting cutting edge and the other blade includes a stomach opening blade with the cutting edge placed on the upper side of the blade in its position of use; and in that the combination knife includes latching means for preventing further rotation of the common blade relative to the knife handle subsequent to having rotated said common blade in a

direction in which one of said two blades has been brought to a position of use; and in that the cutting edge of the knife-acting blade and the cutting edge of the stomach opening blade are located on one and the same side of the common blade.

5 The invention will now be described in more detail partly with reference to an exemplifying embodiment of the invention illustrated in the accompanying drawings, in which

- Figure 1 illustrates a combination knife according to the invention directly from above, with the knife-acting blade in the position shown in Figure 2;
- 10 - Figure 2 illustrates the combination knife from one side;
- Figure 3 illustrates the combination knife according to a first embodiment with one side member having been removed and with the knife-acting blade shown in a first position of use;
- Figure 4 illustrates the combination knife according to the first embodiment with a lining removed and with the knife-acting blade shown in a second position of use;
- 15 - Figure 5 illustrates a second embodiment of the combination knife, with one side member having been removed and with the knife-acting blade shown in a first position of use;
- Figure 6 shows the combination knife according to Figure 5 with one lining removed and with the knife-acting blade in an intermediate position;
- 20 - Figure 7 illustrates the combination knife according to Figure 5 with one lining removed and with the knife-acting blade in a second position of use.

Figure 1 shows a combination knife, primarily a hunting knife, seen directly from above. 25 The combination knife includes two linings 1, 2 and a blade 3. The linings may be made of wood, plastic or metal. Sheet metal elements 3, 4 are conveniently placed inwardly of respective linings 1, 2, as indicated with broken lines 5, 6. The combination knife also includes through-penetrating bolts 7, 8 for holding the linings 1, 2 of the knife together.

30 Although the inventive combination knife is intended primarily for hunting purposes, it can also be used for other purposes, such as for fishing, in rescue operations, for culinary purposes, for hobby purposes, and so on.

According to the invention, the combination knife includes a knife-acting blade 9 that has a typical cutting edge 10, and a stomach opening blade 11 that has a cutting edge 12 which is situated on the upper side of the blade in its position of use. The two blades 9; 11 are comprised of a common blade 13 where the knife-acting blade 9 and the stomach opening blade 11 are each placed on a respective side of a joint 14 located in the knife handle 20 and around which the common blade 13 can be rotated. The knife handle 20 has a length that corresponds to the length of respective blades 9; 11 from the joint 14 to the tip. 15, 16 of respective blades. The cutting edge 10 of the knife-acting blade and the cutting edge 12 of the stomach opening blade are placed on one and the same side of the common blade 13.

According to one preferred embodiment of the invention, the tip or point 16 of the stomach opening blade 11 is obtuse.

According to a first embodiment of the invention, the combined knife includes a latching means 17 for latching the common blade 13 in relation to the knife handle 20 when one of the two aforesaid blades has been turned to a position of use.

According to one preferred embodiment of the invention, the latching means 17 includes a shoulder 18 that projects out between the handle linings 1, 2 and is fixed relative thereto. The shoulder 18 is located at that end of the knife handle 20 which is opposite to the end at which the joint 14 is located. The shoulder 18 projects sufficiently far in between the linings 1, 2 to prevent the common blade 13 being rotated beyond the shoulder 18.

Figure 3 shows the use position of the stomach opening blade 11, in which the outer part of the knife blade 9 lies in abutment with the shoulder 18. When using the stomach opening blade, the hunter will hold the knife handle 20 and apply force to the skin of the animal through the medium of the cutting edge 12.

Figure 4 shows the use position of the knife-acting blade 9, wherein the outer part of the stomach opening blade 11 lies in abutment with the shoulder 18. When using the knife-acting blade, the hunter will hold the knife handle 20 and apply force to the body of the animal through the medium of the cutting edge 10.

The shoulder 18 thus has a restraining action both when using the knife-acting blade 9 and when using the stomach opening blade 11.

According to a second embodiment of the invention, the combination knife includes a latching means for latching the common blade 13 relative to the knife handle 20 when one of the two knife blades has been brought to a position of use. This latching means 24 includes a through-penetrating channel 21 in the knife-acting blade 13, this channel extending in an arcuate path with the centre of the arc coinciding with the centre of the joint 14. A pin 19 extends between the linings 1, 2 and through said channel 21, wherein the channel 21 is placed such that when the common knife blade 13 is rotated so that the pin 19 abuts one end 22 of the channel 21 or the other end 23 of said channel, the knife-acting blade 9 or the stomach opening blade 11 respectively will be in its use position. The pin 19 may extend through the linings or solely through the sheet metal elements 3, 4.

A shoulder 22 is located between the linings on an opposite side relative to the joint 14.

Because the common blade is rotatably mounted about the joint 14, the hunter is able to switch quickly between the two types of cutting blade, therewith greatly facilitating opening of the animal's abdominal cavity in comparison with needing to use two individual cutting blades, i.e. a stomach opening blade and a separate knife-acting blade.

It will thus be evident that the invention avoids the problem described in the introduction.

Although different embodiments of the invention have been described, it will be apparent that the latching means, among other features, can be designed differently, for instance so that the latching means will latch the blade in both of its directions of rotation when inserted inwardly.

The present invention shall not therefore be considered as being limited to the aforescribed and illustrated exemplifying embodiments thereof, since variations can be made within the scope of the accompanying Claims.

CLAIMS

1. A combination knife, which is intended primarily for hunting purposes and which includes a common blade (9), for two different blades (9; 11), each located on a respective
5 side of a joint (14), which is mounted on a knife handle (20) and around which the common blade (13) can be rotated, wherein the knife handle (20) has a length which corresponds to the length of respective blades (9; 11) from said joint (14) to the tip or point (15, 16) of said blades, characterised in that one blade (9) includes a typical knife-acting cutting edge and the other blade (11) includes a stomach opening blade (11) whose cutting
10 edge (12) is situated on the upper side of the blade (11) in the position of use; in that the combination knife includes a latching means (17,18;21,24) for preventing further rotation of the common blade (13) relative to the handle (20) subsequent to having rotated the common blade (13) in a direction in which one of said two blades (9; 11) has been brought to a position of use; and in that the cutting edge (10) of the knife-acting blade and the
15 cutting edge (12) of the stomach opening blade are located on one and the same side of the common blade (13).

2. A combination knife according to Claim 1, characterised in that the latching means (17) includes an outwardly projecting shoulder (18) which is located between the two knife
20 handle linings (1, 2) and fastened relative thereto; in that the shoulder (18) is located at that end of the handle (20) which lies opposite to the end on which the joint (14) is located; and in that the shoulder (18) projects sufficiently far in between the linings to prevent the common blade (13) from being rotated beyond the shoulder (18).

25 3. A combination knife according to Claim 1, characterised in that the latching means (24) includes a through-penetrating channel (21) in the common blade (13), said channel extending arcuately with the centre of the arc coinciding with the centre of the joint (14), wherein the latching means includes a pin (19) that extends between the linings (1, 2) and through said channel (21); and in that said channel (21) is placed so that when the common
30 blade (13) has been rotated so as to bring the pin (19) into abutment with one end (22) of the channel (21) or the other end (23) of said channel, either the knife-acting blade (9) or the stomach opening blade (11) will be in its position of use.

4. A combination knife according to Claim 1, 2 or 3, characterised in that the stomach opening blade (11) has an obtuse tip or point (16).

