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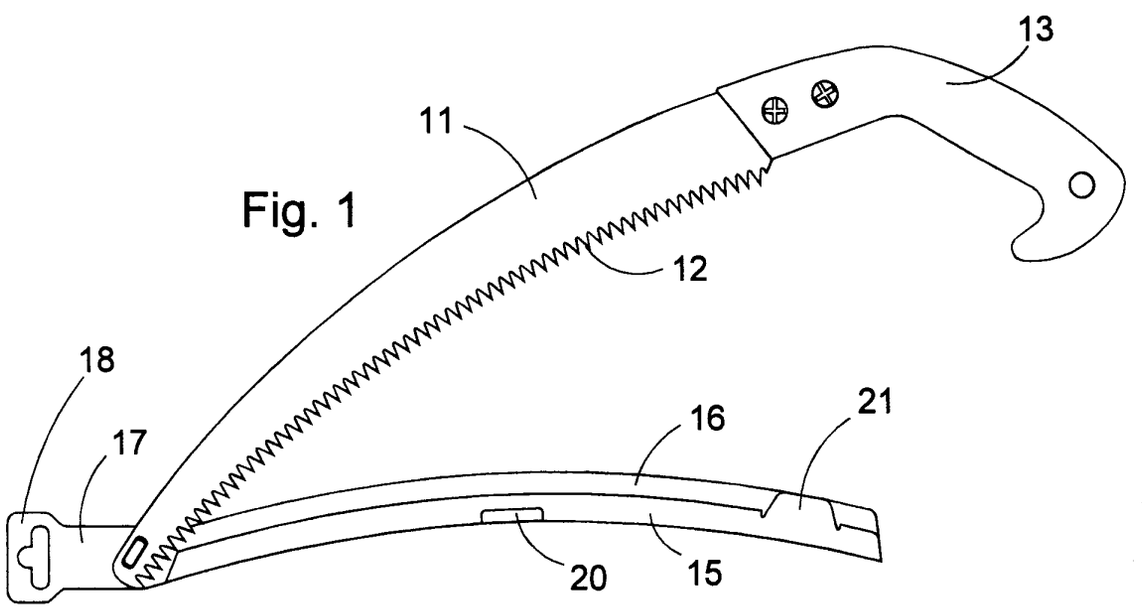
## (54) Edge protector for handsaws

(57) Edge protector for handsaws, comprising a tooth-protecting part with unsymmetrical U-sectipon and with the same curvature as the toothed edge of the saw blade, where the base part (16) is extended in the first end corresponding to the front end of the saw and provided with a suspension part (18) and a peg (19) with a head (22) which can be inserted through a hole (14) in the saw blade at least in a predetermined relative position of the saw and the edge protector, and where the tooth-protecting part near the other end is provided with a closure (21) which can prevent relative motion between the saw blade and the edge protector when the toothed edge of the saw blade is entered into the U-section.

Fig. 1




EP 1 077 120 A2

## Description

### Background

**[0001]** Handsaws are often provided with detachable edge protectors to avoid the saw teeth damaging or being damaged by other tools during transport or storage. Such edge protectors are often made as profiles of polymer materials, which are pushed over the toothed edge of the saw and retained by the elasticity of the polymer material, as described in the patent SE 469 116. Such a polymer profile may also be used for suspension of light weight items on a wall, but hardly for complete saws or similar tools, since the friction may be reduced by oil or heat.

**[0002]** The present invention concerns an edge protector for saws, which in comparison to prior art is locked in a longitudinal direction to prevent release of the protector by the weight of the saw, and which at one end is designed for easy suspension on a wall or at the belt of the user.

### Description

**[0003]** The edge protector is described with reference to the figures, where figure 1 shows a handsaw and an edge protector in a relative position when they can be disengaged from each other, figures 2-3 in a relative position when they are locked to each other, and figure 4 an end view of the edge protector.

**[0004]** The handsaw comprises a saw blade (11) provided with one toothed edge (12) and one handle (13) attached to the rear end of the saw blade. The front end of the saw blade is made with an oblong hole (14).

**[0005]** The edge protector comprises one tooth-protecting part, made with basically the same curvature as the toothed edge (12) of the saw blade, and with a generally U-shaped cross-section with enough space to enclose the toothed edge (12). The cross-section is preferrably unsymmetrical, with a wider base part (16) and a narrower cover part (15). The base part (16) extends farther than the cover part (15) in the end corresponding to the front end of the saw blade and comprises there one suspension part (18), one information carrier (17) and one peg (19). The suspension part is made with a hole for suspension of the edge protector on a wall for storage or exposure, or on the belt of the user of the saw.

**[0006]** The information carrier is made to carry information of trademark, catalogue number and intended use, integral with the material or as a sticker. The peg (19) is made with a cylindrical stem of a lengthe larger than the thickness of the saw blade, and with a head (22) which can be inserted through the hole (14) of the saw blade when its position relative to the edge protector permits disengagement as in figure 1, but which can not be moved through the hole when the position of the saw blade locks it to the edge protector according to figure 2. Examples of suitable shapes of the hole (14) and the head (22) can be a keyhole-shape hole and a circular head, which set no demands on the angular precision but needs a longitudinal displacement to lock the saw blade to the edge protector. Another example is an elongated slot-like hole (14) and an elongated head (22), which requires a certain relative angular position for disengagement.

**[0007]** The cover part can be made with a cutout (20) through which one can observe the teeth in case there are several saw blades with different tooth shapes. In the vicinity of the saw handle, the edge protector is provided with a closure (21) which can fasten the rear end of the saw blade to the edge protector in a releasable way. Several such closures are known in prior art, such as magnets or elastic snaps corresponding to patent SE 469 116 or elastically lockable enclosing bridges.

**[0008]** When the edge protector is to be mounted on a saw, the saw and the edge protector are held in an appropriate relative angle according to figure 1, and the head (22) of the peg is moved through the hole (14). The saw is then rotated around the stem (19), if needed with a downward displacement, until the toothed edge (12) of the saw blade has entered between the base part (16) and the cover part (15) of the tooth-protecting part. When the saw blade has been rotated to its final position according to figure 2, it is fastened in this position by the closure (21). The saw can then be suspended on a wall or a belt, or put into a tool chest without risk of damaging or being damaged by other items.

**[0009]** If the saw blade has a straight toothed edge, the edge protector is made straight, and if the toothed edge is curved the edge protector should be correspondingly curved. The suspension part (18) and the information carrier (17) may also be made as separate or removable parts which can be attached to the peg (19). In that way, the edge protector can be adapted to different shapes of the cutout of the suspension part, or different information content. Also, the total required size of the saw with its edge protector can be reduced.

## Claims

1. Edge protector for handsaws, where a tooth-protecting part has an unsymmetrical U-section comprising a wider base part (16) and a narrower cover part (15), characterized by the base part extending farther than the cover part in a first end of the edge protector corresponding to the front end of the saw blade and carrying a peg (19) which can be inserted through a hole (14) in the saw blade, and by the edge protector being provided with a closure (21) adjacent to a second end to prevent displacement of the saw relative to the edge protector when the toothed edge (12) of the saw blade has entered between the parts of the U-section.

2. Edge protector according to claim 1, characterized

by the peg (19) having a head (22) which can be inserted through the hole (14) only when the saw blade is at a predetermined angle relative to the edge protector.

3. Edge protector according to claim 1, characterized by the closure being a magnet.

4. Edge protector according to claim 1, characterized by the closure being an elastic snap holding the saw blade by friction.

5. Edge protector according to claim 1, characterized by the closure being a bridge enclosing part of the saw blade.

6. Edge protector according to claim 1, characterized by the base part (16) also comprising a suspension part (18) or an information carrier (17) or both.

7. Edge protector according to one of the preceding claims, characterized by the tooth-protecting part having the same curvature as the toothed edge of the saw blade.

Fig. 1

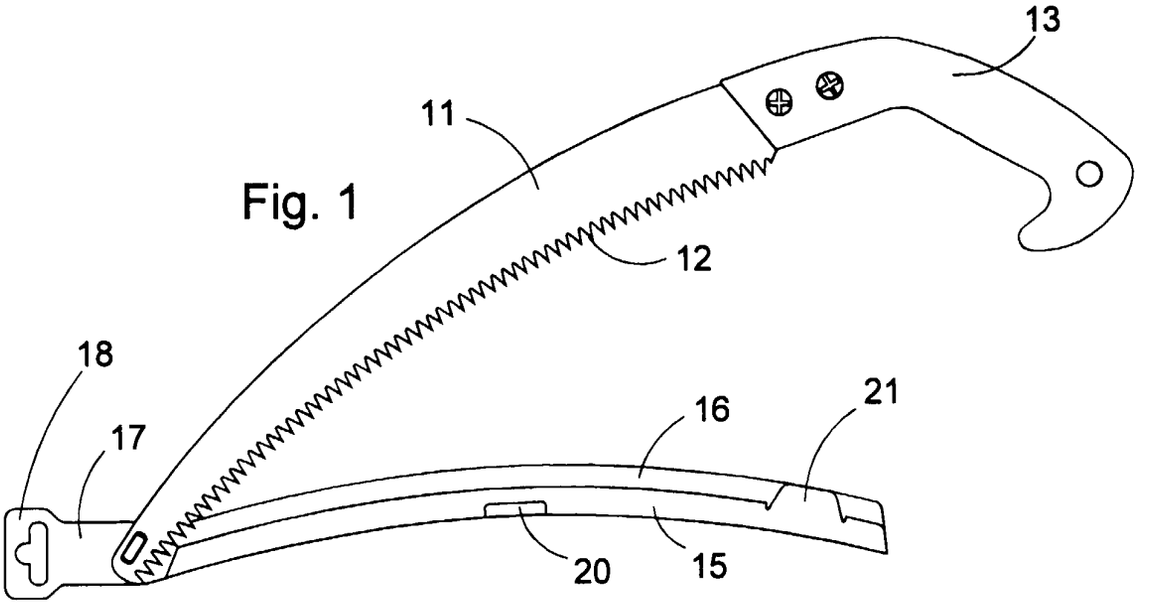



Fig. 2

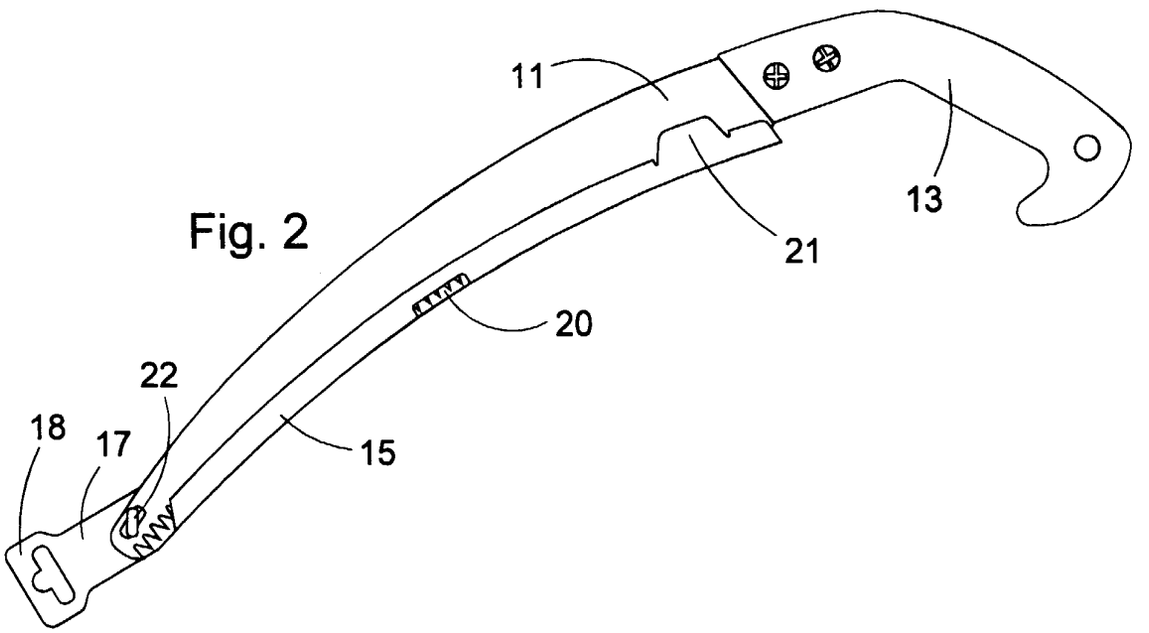



Fig. 3

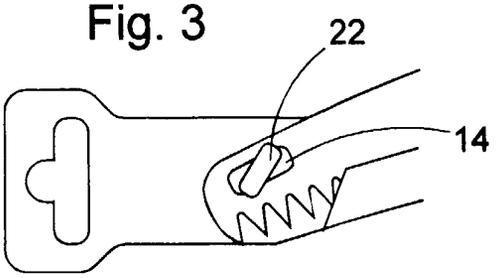



Fig. 4