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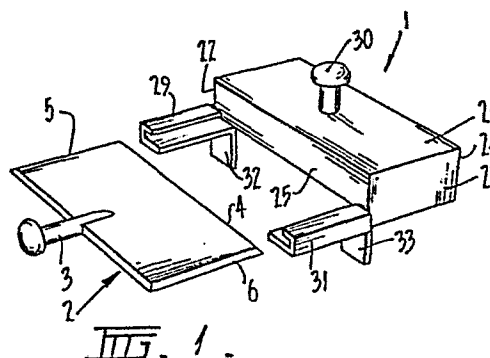
71 Applicant: **Morgan, Ronald John**
7 Howqua Court
Vermont Victoria 3133(AU)

72 Inventor: **Morgan, Ronald John**
7 Howqua Court
Vermont Victoria 3133(AU)

74 Representative: **Stanley, David William et al,**
APPLEYARD LEES & CO. 15 Clare Road Halifax
West Yorkshire HX1 2HY(GB)

54 **Rebating tool.**

57 A rebating tool comprising a support, three cutting edges (26, 27, 28) depending from the support and defining three sides (21, 22, 23) of a rectangle and wherein the support is adapted (30) to be struck with a hammer or other driving tool to drive said edges into a workpiece and further comprising a fourth cutting edge (4) and guide means (29, 31) therefore adapted to guide the fourth cutting edge (4) to move in a plane parallel to said rectangle to be able to co-operate in use with said three cutting edges to therewith cut out a rectangular piece having depth from said workpiece.



TITLE MODIFIED
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1 This invention relates to rebating.

2 In a particular aspect this invention relates to a tool
3 for rebating.

4 In a more particular aspect this invention relates to a
5 tool for forming rebates for hinges.

6 A rebate for a hinge in a door and an associated
7 doorframe usually involves the cutting of rectangles of wood
8 from a stile of the door and a stile of a doorframe which
9 are of particular height, width and depth and positioned
10 with respect to particular edges of the stile of the door
11 and the stile of the doorframe.

12 Such rectangles of wood are not easily cut by any but
13 an experienced person to the precision usually desired.

14 Such a rectangle, if incorrectly cut, may require
15 recutting or packing if an ill hanging door is not to
16 result.

17 The present invention seeks to provide a rebating tool
18 which, while primarily useful in cutting rebates for hinges,
19 may be put to other uses such as in cutting rebate for
20 certain kinds of locks and window stays.

21 The present invention provides a rebating tool
22 comprising

23 a support,

24 three cutting edges depending from the support and
25 defining three sides of a rectangle

26 and wherein the support is adapted to be struck with a
27 hammer or other driving tool to drive said edges into a
28 workpiece

29 and further comprising a fourth cutting edge and guide
30 means therefor adapted to guide the fourth cutting edge to
31 move in a plane parallel to said rectangle to be able to co-
32 operate in use with said three cutting edges to therewith
33 cut out a rectangular piece having depth from said
34 workpiece.

35 The support preferably has a raised striker for being
36 struck. Said fourth cutting edge preferably has a striker
37 for being struck.

1 Said rectangle may be of an appropriate size to suit a
2 particular hinge and since very few sizes of hinges are
3 actually used it will suffice if said tool is provided in a
4 limited number of sizes.

5 Preferably said support has abutments whereby the tool
6 may be brought into abutting relation with a side edge of
7 the workpiece. Those abutments preferably include a portion
8 in alignment with one of the cutting edges to facilitate
9 positioning.

10 One or more of the cutting edges may have a serrated
11 edge to act as a cutting surface.

12 The fourth cutting edge may be captured to the support.

13 The support may be provided with attachment means for
14 attaching it to the workpiece to be rebated. Alternatively,
15 the support may be provided with means for attaching such
16 attachment means to the support.

17 A specific construction of a hinge rebate cutter in
18 accordance with this invention will now be described with
19 the aid of the accompanying drawings in which:-

20 Figure 1 is a perspective view of the cutter,

21 Figure 2 is a top plan view of the cutter,

22 Figure 3 is a front elevational view of the cutter,

23 Figure 4 is a side view of the cutter,

24 Figure 5 is a cross-section on line 5 - 5 in Figure 2,

25 and

26 Figure 6 is a perspective view of a rebate cut by the
27 cutter.

28 The cutter shown in the drawings comprises a body 1 and
29 a movable blade 2.

30 The movable blade 2 is rectangular, has a striker 3 and
31 cutting edges 4, 5 and 6.

32 The body 1 comprises a rectangular box which is open at
33 its bottom and has a top 21, ends 22 and 23, back 24 and
34 front 25.

35 The ends 22 and 23 and back 24 have cutting edges 26,
36 27 and 28 at their lower ends.

37 The body 1 also includes a striker 30.

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1 The front 25 depends from the top 21 to a lesser extent
2 than the sides 22 and 23 and back 24 and that lesser extent
3 is equal to the depth of rebate to be cut.

4 Secured to the front are two blade guides 29 and 31 and
5 two alignment lugs 32 and 33.

6 The blade 2 can be received and guided by the guides 29
7 and 31 and pass under the front 25.

8 In use the cutter is placed on a door stile 41 of a
9 door 42 with the body 1 on the surface 43 and the lugs 32
10 and 33 on the surface 44.

11 To facilitate positioning of the cutter it is desirable
12 to make no more than a single mark such as is represented by
13 dash line 46 and alignment of the lug 33 can be made with
14 that line 46.

15 Thereafter the striker 30 is hit with a hammer or other
16 driving tool to drive the cutting edges 26, 27 and 28 into
17 the surface 43 of the stile 41 to cut to a depth which will
18 be limited by the front 25 coming into abutment with the
19 surface 43 of the stile 41.

20 As a result, cuts on lines 47, 48 and 49 will be made.

21 With the body still in position, the blade 2 is
22 inserted into the guides 29 and 31 and its striker 3 is then
23 hit with a hammer or other driving tool to cut with edges 4,
24 5 and 6 in a plane parallel to surface 43 to remove a piece
25 of timber and so complete the rebate.

26 Similar rebating of doorframes and other structures may
27 be done.

28 The above described cutter is conveniently made of
29 metal but the use of plastics or other materials provided
30 with metal cutting edges is not to be excluded.

31 The claims form part of the disclosure of this
32 specification.

33 Modifications and adaptations may be made to the above
34 described without departing from the spirit and scope of
35 this invention which includes every novel feature and
36 combination of features disclosed herein.

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1 The claims defining the invention are as follows:

- 2 1. A rebating tool comprising a support, three cutting
3 edges depending from the support and defining three sides of
4 a rectangle and wherein the support is adapted to be struck
5 with a hammer or other driving tool to drive said edges into
6 a workpiece and further comprising a fourth cutting edge and
7 guide means therefore adapted to guide the fourth cutting
8 edge to move in a plane parallel to said rectangle to be
9 able to co-operate in use with said three cutting edges to
10 therewith cut out a rectangular piece having depth from said
11 workpiece.
- 12 2. A rebating tool as claimed in claim 1, including a
13 raised striker on the support for being struck.
- 14 3. A rebating tool as claimed in claim 1, wherein said
15 fourth cutting edge has a striker for being struck.
- 16 4. A rebating tool as claimed in claim 1, wherein said
17 support has abutments whereby the tool may be brought into
18 abutting relation with a side edge of the workpiece.
- 19 5. A rebating tool as claimed in claim 4, wherein those
20 abutments include a portion in alignment with one of the
21 cutting edges to facilitate positioning.
- 22 6. A rebating tool as claimed in claim 1, wherein one or
23 more of the cutting edges has a serrated edge.
- 24 7. A rebating tool as claimed in claim 1, wherein the
25 fourth cutting edge is captured to the support.
- 26 8. A rebating tool as claimed in claim 1, wherein the
27 support is provided with attachment means for attaching it
28 to the said workpiece.
- 29 9. A rebating tool substantially as hereinbefore described
30 with reference to any one of the drawings.

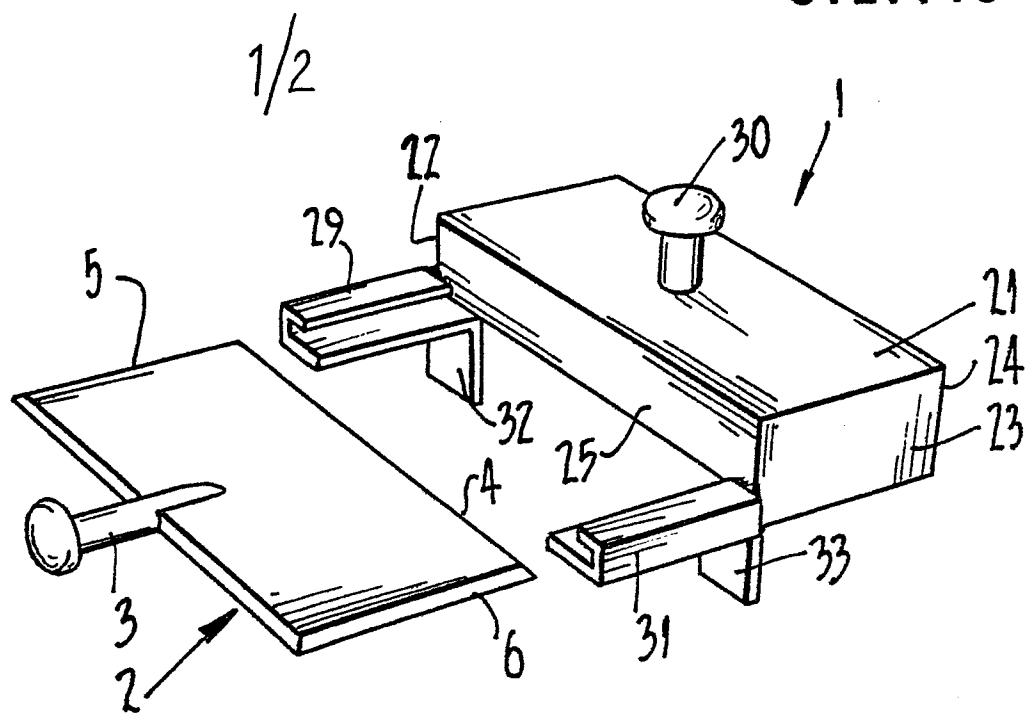
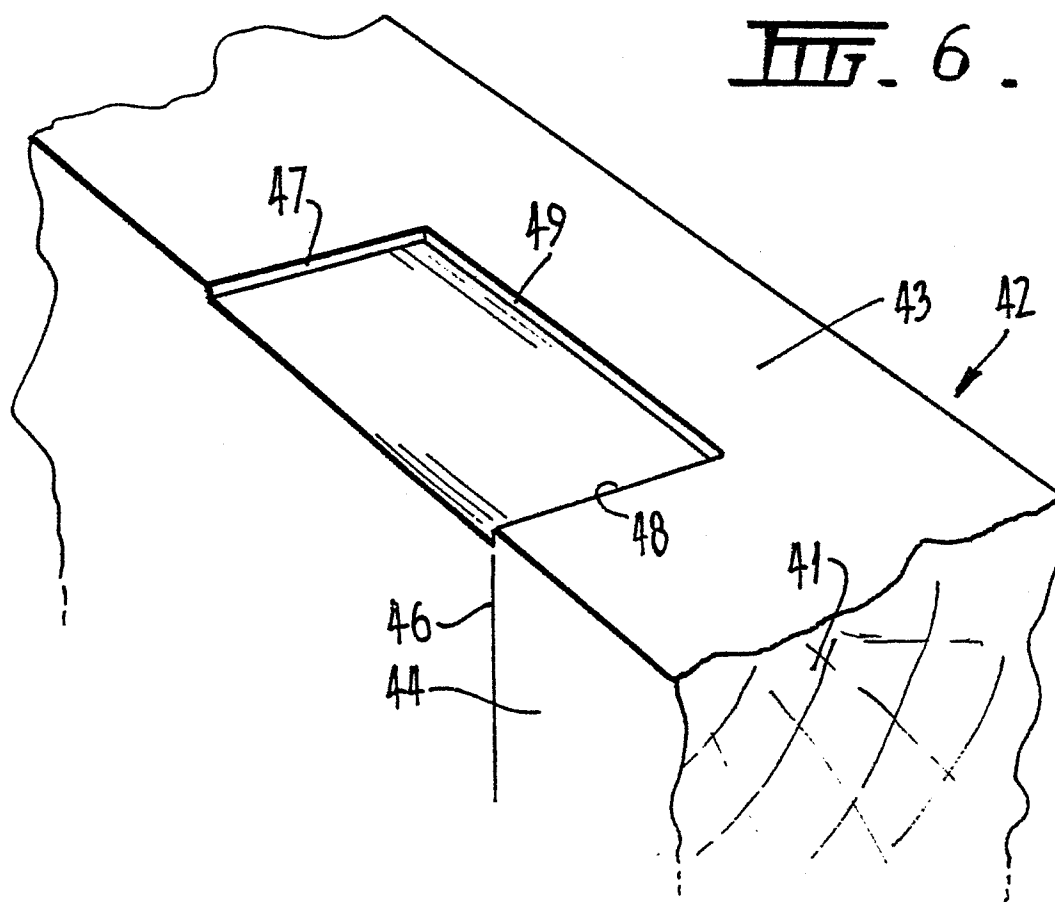


FIG. 1.



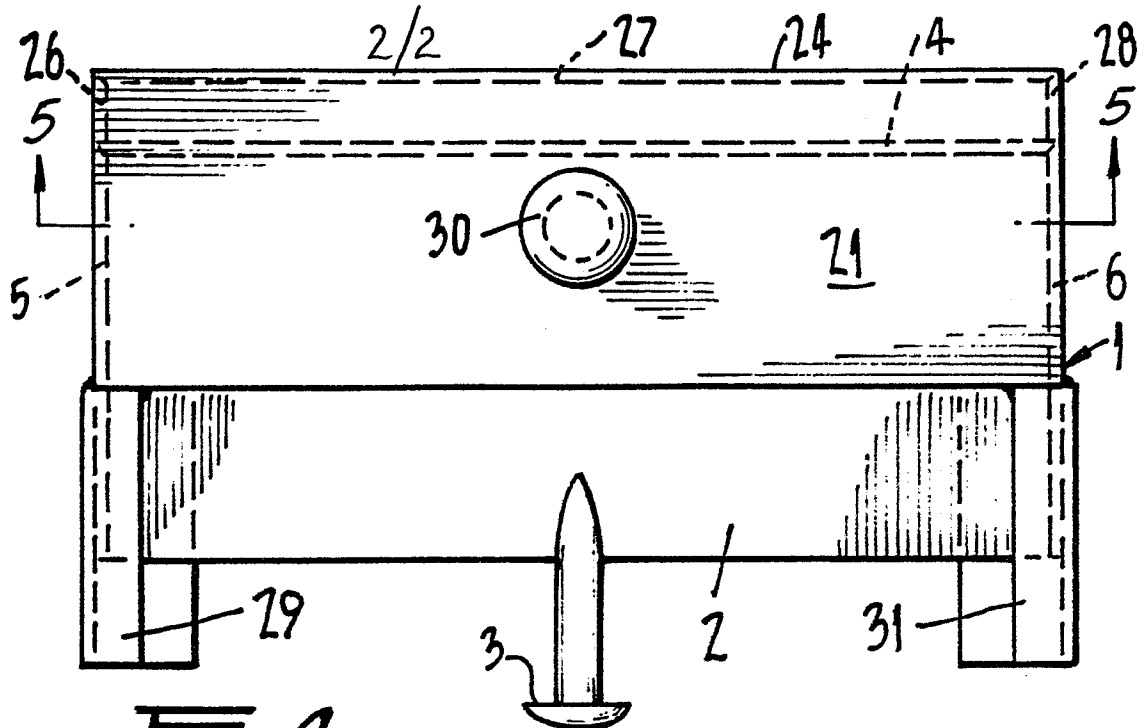


FIG. 2.

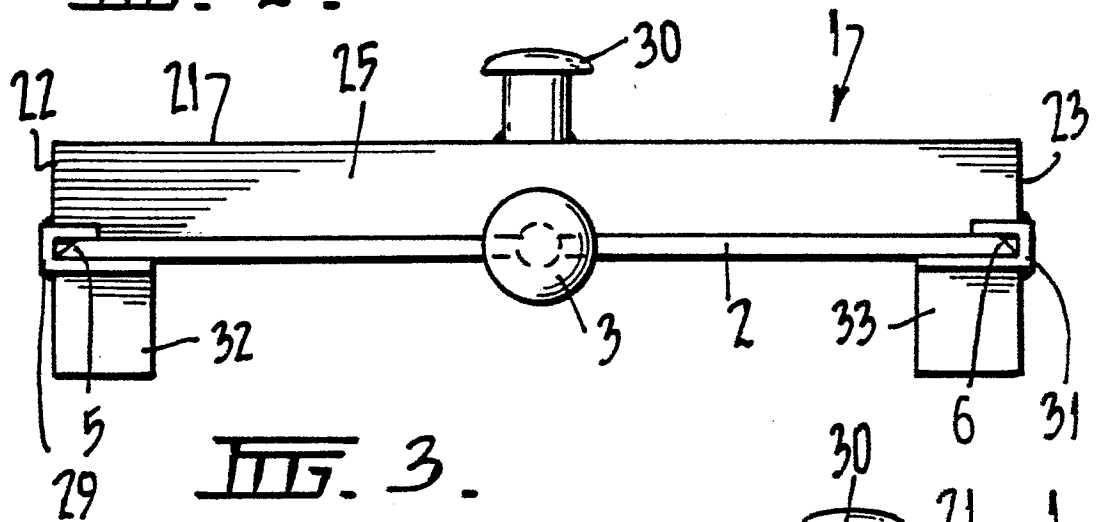


FIG. 3.

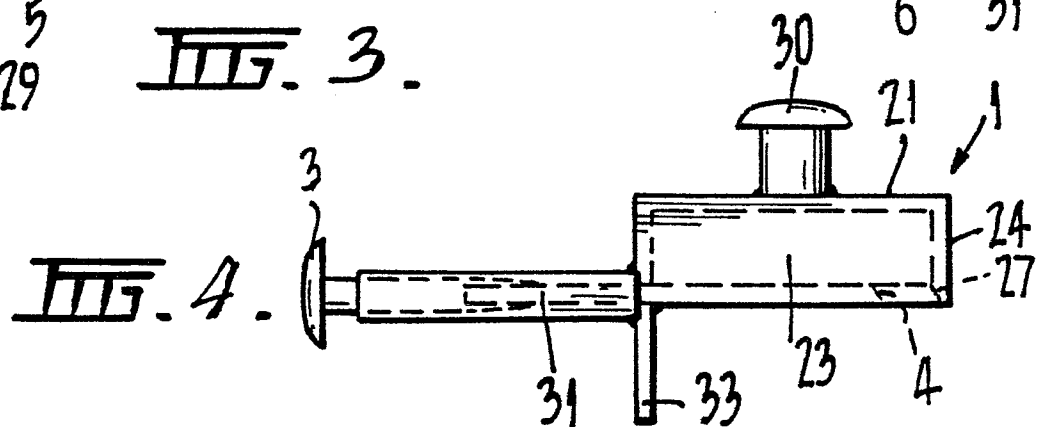


FIG. 4.

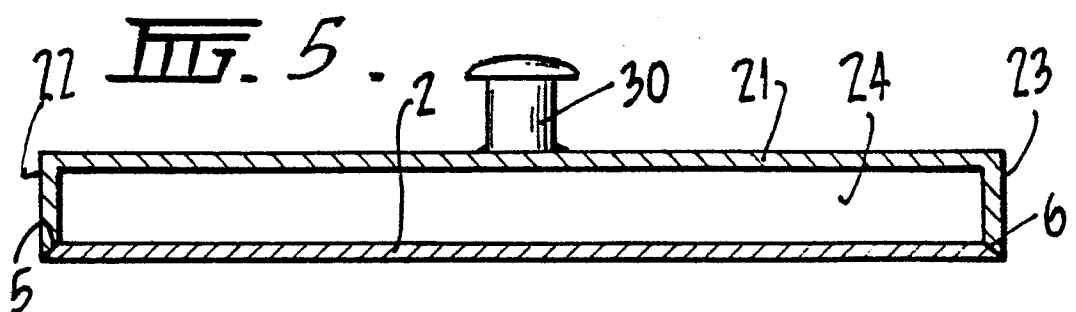


FIG. 5.



European Patent
Office

EUROPEAN SEARCH REPORT

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Application number

EP 83307820.7

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
X	<u>GB - A - 1 205 508</u> (GUMBRELL) --	1,4,5, 7,8	B 27 F 5/12
X	<u>US - A - 2 663 333</u> (BROWN) --	1,4,5, 7,8	
X	<u>US - A - 1 754 925</u> (ALMIND) --	1,2,4, 5,7	
X	<u>US - A - 1 295 386</u> (THOMPSON) --	1,2,3, 7	
X	<u>US - A - 991 062</u> (HOGLUND) --	1,2,3, 7,8	
X	<u>US - A - 761 861</u> (WAGNER) --	1,2,3, 4,5,7	
A	<u>US - A - 855 834</u> (BUBB) ----		TECHNICAL FIELDS SEARCHED (Int. Cl. 7) B 27 F 5/00 B 27 G 17/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 26-07-1984	Examiner EBERLE
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			