Sept. 2, 1941. H. D. BATTERSHELL 2,254,413

CUTTING DEVICE

Filed May 13, 1941

Fig. 3.

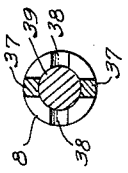


Fig. 4.

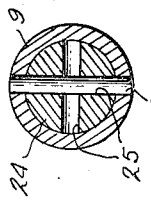
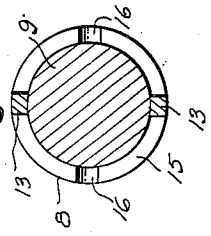


Fig. 5.



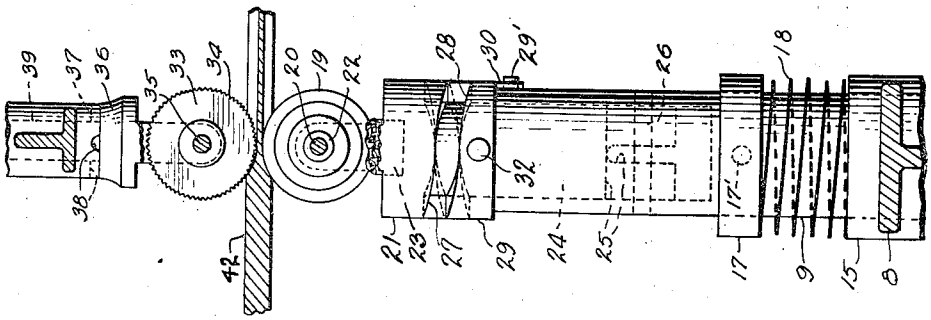


Fig. 2.

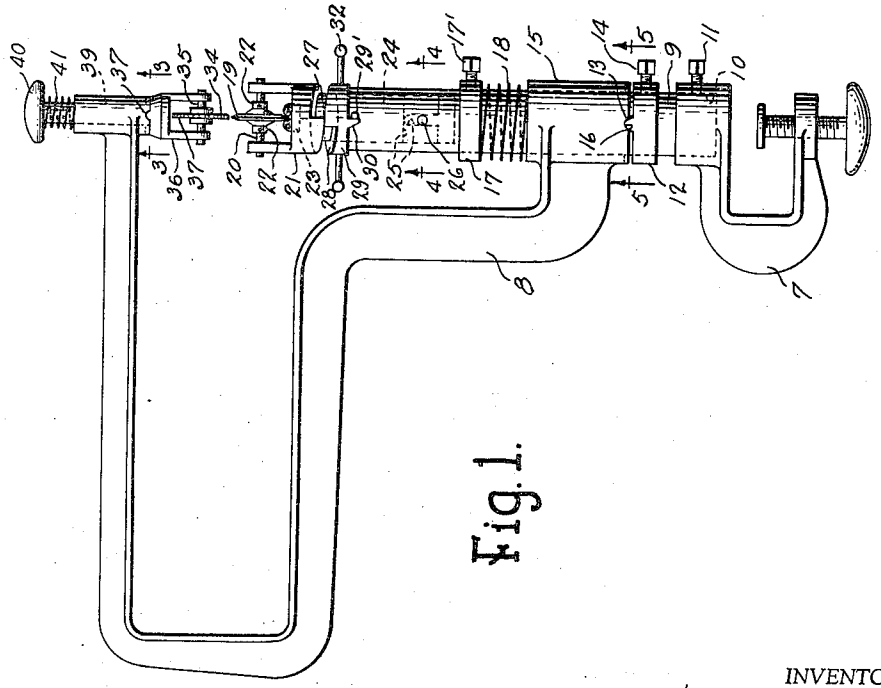


Fig. 1.

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# UNITED STATES PATENT OFFICE

2,254,413

## CUTTING DEVICE

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Application May 13, 1941, Serial No. 393,290

9 Claims. (Cl. 164—60)

This invention relates to cutting devices and has particular reference to a device for cutting siding material and the like.

An object of the invention is to provide a device of the character referred to, which is light and readily portable and has a high degree of maneuverability in closely confined spaces.

Another object of the invention is the provision of a device which can be employed to cut "Celotex" and like materials by simply pushing or pulling the material through the device.

Another object of the invention is the provision of a device which can be used to notch out as well as cut materials such as indicated above.

The foregoing objects and other advantages of the invention will become more apparent as the description proceeds, reference being made from time to time to the accompanying drawing, in which:

Fig. 1 is a front elevation of a device embodying my invention.

Fig. 2 is an enlarged view with parts broken away, and partly in section, illustrating the manner in which the material to be cut is forced through the device.

Fig. 3 is a section taken substantially on the line 3—3 of Fig. 1.

Fig. 4 is a section taken substantially on the line 4—4 of Fig. 1.

Fig. 5 is a section taken substantially on the line 5—5 of Fig. 1.

Referring now more particularly to the drawing it will be understood that in the embodiment herein disclosed, my device consists generally of a special C clamp 7 with which the device may be mounted on a scaffold board or the like, a substantially larger bracket 8, and a tubular body member 9. The lower end of the body member 9 rests in a suitable socket 10, formed as an integral part of the C clamp 7, and is held against displacement by a set screw 11. A collar 12, having detents 13, formed on its upper edge, is adjustably mounted on the body 9, and is held against displacement by a set screw 14. The collar 12, is intended to serve as an adjustable support for the bracket 8, the end 15 of which is a hollow cylinder adapted to fit over the body 9. The end 15 is provided with recesses 16 adapted to engage the detents 13 of the collar 12, so that the bracket 8 may be swung into several operating positions. A second collar 17 is mounted on the body 9 and is secured in place by the set screw 17'. Between the collar 17 and the end member 15 is a coil spring 18. This serves to hold the bracket 8 against the collar 12, but permits the bracket to be moved upwardly, if it is desired to swing the bracket, or if there is an overload on the cutting elements described hereinafter.

The lower cutting element 19 is a circular knife, which is mounted on a spindle 20, the latter being carried by a casting 21. The knife 19 may be held in position on the spindle 20 by collars 22. The casting 21 is provided with a depression or cup-like formation 23, in which oiled waste or another lubricating medium for the cutting member 19 may be carried. The casting 21 is provided with a depending portion 24 which extends into the tubular body member 9. Two slots 25 in the portion 24 engage a pin 26 which extends through the body 9 and prevents the casting from turning normally, but permits it to be raised and lowered, and permits it to be rotated 90 degrees when in raised position. A cam surface 27 is formed on the edge of the casting 21, and is adapted to engage a corresponding cam surface 28 formed on the turning collar 29, which is mounted for rotation on the end of the body 9. A lug 30 on the collar 29 engages a pin 29' on the body 9 and serves as a stop for the rotation of the collar 29. The collar 29 is provided with suitable handles 32, whereby the same may be turned. As the collar 29 is turned the engagement of the cam surfaces 27 and 28 causes the casting 21 to be raised or lowered, thereby causing the cutting element 19 to approach or recede to or from the cutting element 33, which in this embodiment is a saw or sharp toothed wheel 34, mounted on the spindle 35 which is carried on the casting 36, the latter being slidably mounted in the upper end of the bracket 8. The casting 36 is provided with detents 37 adapted to engage recesses 38 in the end of the bracket 8 and serve as locking means against the rotation of the casting 36. The casting 36 has a shank 39 at the end of which is a pressure knob 40. A coil spring 41 is interposed between the knob 40 and the end of the bracket 8. The spring 41 normally urges the casting 36 and cutting element 33 upwardly, but permits them to be lowered by compressing the spring.

In using the device the bracket 8 is swung to the position desired and the cutting elements are placed in alignment in their desired position. The material 42 to be cut (Fig. 2) is then forced through the device. The upper cutting element 33 being in the form of a toothed member, can

readily pierce material which is coated with an abrasive, such as sand or the like.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. In a device of the character described, the combination of a bracket, a body member mounted at one end of said bracket, cutting elements carried respectively by members on the other end of said bracket and on said body member, and spring means positioned between the respective ends of said bracket, and the supporting members for said cutting elements.

2. In a device of the character described, the combination of a bracket, a body member mounted at one end of said bracket, cutting elements carried respectively by members on the other end of said bracket and on said body member, the said bracket being arranged to be rotated about the longitudinal axis of said body member.

3. In a device of the character described, the combination of a bracket, a body member mounted at one end of said bracket, cutting elements carried respectively by members on the other end of said bracket and on said body member, the said cutting elements being circular in formation, and pivoted for rotation in common planes, and in planes angular to one another.

4. A device of the character described comprising the combination of a substantially C-shaped bracket, a tubular body member extending through the lower end of said bracket, fastening means secured to said body member, a bifurcated member adjustably mounted in the upper end of said bracket, a circular cutting member mounted in said bifurcated member, and a second circular cutting member mounted on means at the free end of said body member.

5. The combination defined in claim 4, in which the said second cutting member is mounted for rotation on a bifurcated member having a depending portion which telescopes the tubular body member.

6. The combination defined in claim 4, in which there are spring means interposed between the said bracket and the first named bifurcated member, and between the said bracket and an adjustable collar carried on said tubular body member.

7. The combination defined in claim 4, in which there are spring means interposed between the said bracket and the first named bifurcated member, and between the said bracket and an adjustable collar carried on said tubular body member, the said bifurcated member having a cam surface adapted to engage a corresponding cam surface carried on a rotatable collar member mounted at the end of said body member.

8. The combination defined in claim 4, including a collar adjustably secured to said body member, said collar having means to engage means on said bracket for locking the bracket in position.

9. The combination defined in claim 4, including means on said bracket and means on said bifurcated member which co-operate to lock the said parts against rotation.

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