United States Patent [19]

Kolarik et al.

[11] **3,862,686**

[45] **Jan. 28, 1975**

[54] **POWER SAW UTILITY CASE**

[76] Inventors: **John P. Kolarik, George Spector,** both of 3615 Woolworth Bldg., 233 Broadway, New York, N.Y. 10007

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[21] Appl. No.: **286,218**

[52] **U.S. Cl.** **206/349,** 190/11, 206/321

[51] **Int. Cl.** **B65d 85/54,** A47b 3/08

[58] **Field of Search** ..... 206/16 R, 349, 231; 190/11

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Primary Examiner—Leonard Summer

Attorney, Agent, or Firm—John P. Kolarik

[57] **ABSTRACT**

A power saw utility case that serves as a rest while working on a job, and a storage bin for extra saw blades, rip guide bar, electric adapter, wrench, and the like; the case being of metal, and including folding legs that are extendable so to raise the case to a convenient level for use on the job, and wherein the legs are retractably folded out of the way when the case is intended to be carried.

3 Claims, 15 Drawing Figures

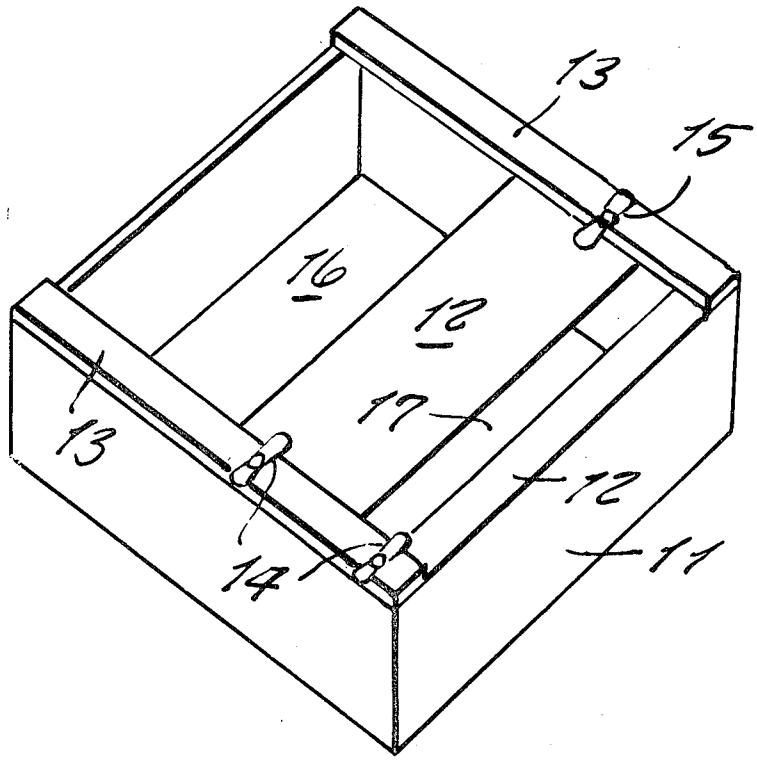


Fig. 2

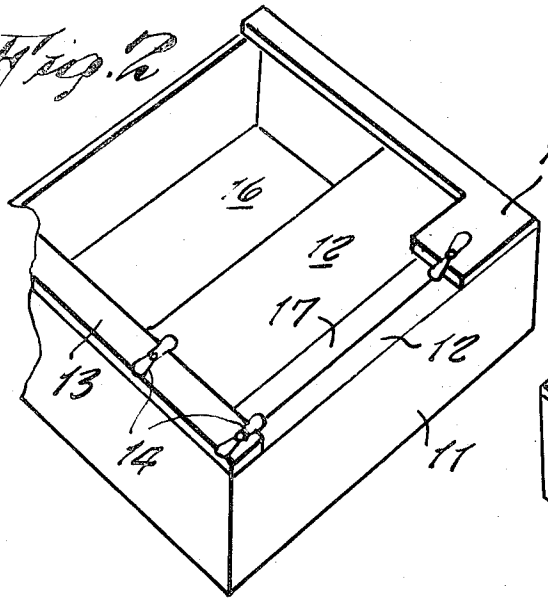


Fig. 1

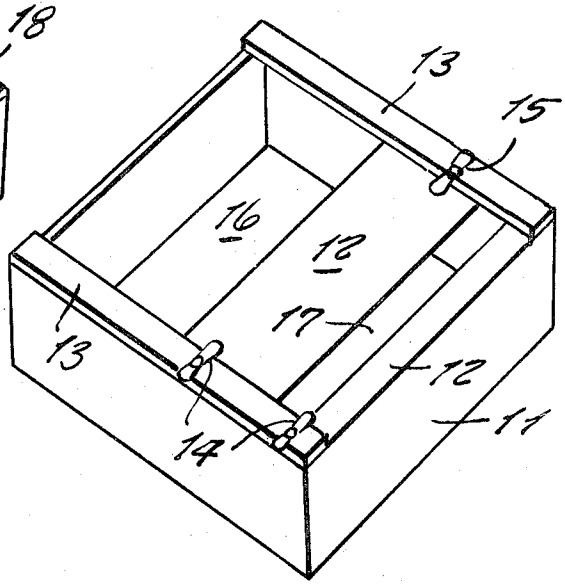


Fig. 3

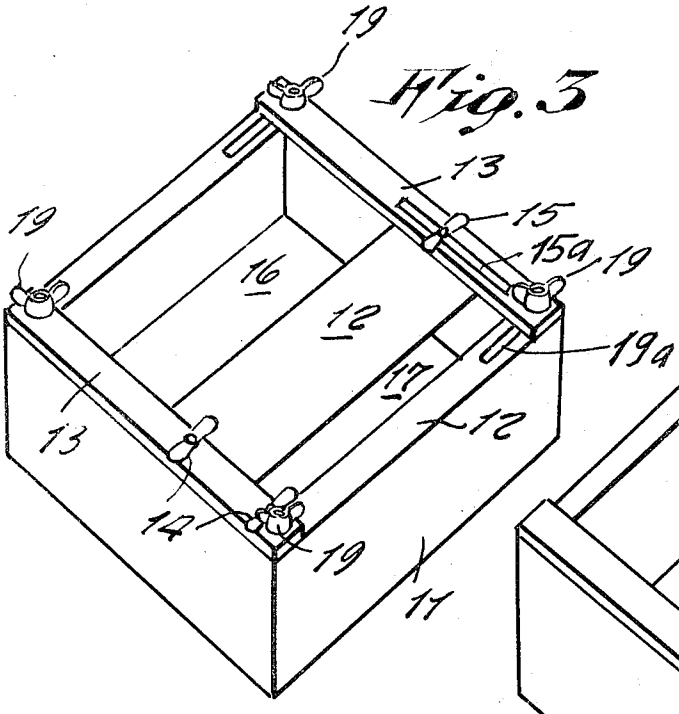


Fig. 5

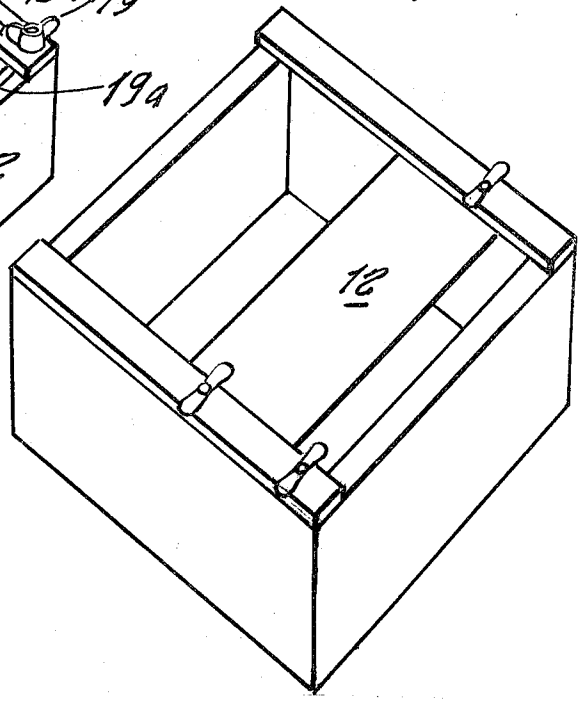


Fig. 4

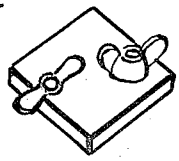


Fig. 6

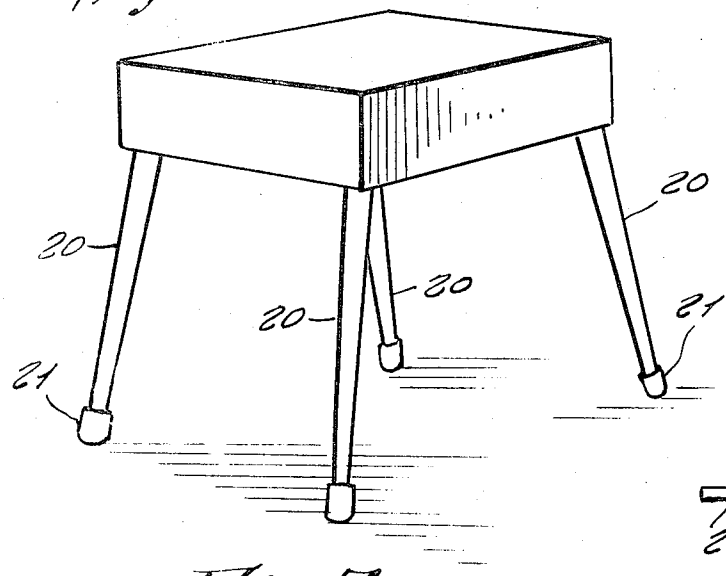


Fig. 8

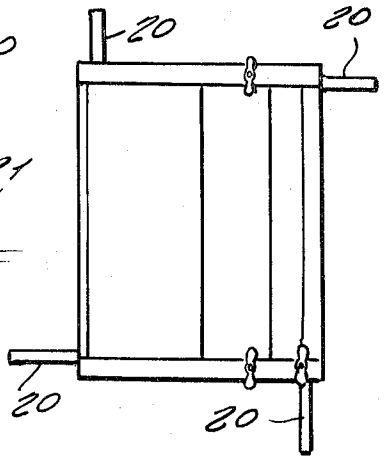


Fig. 7

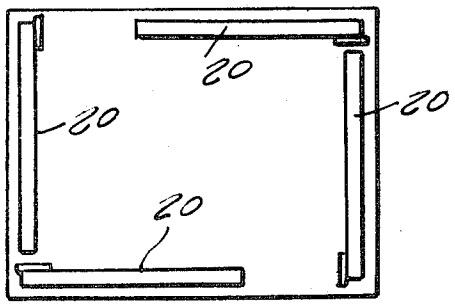


Fig. 9

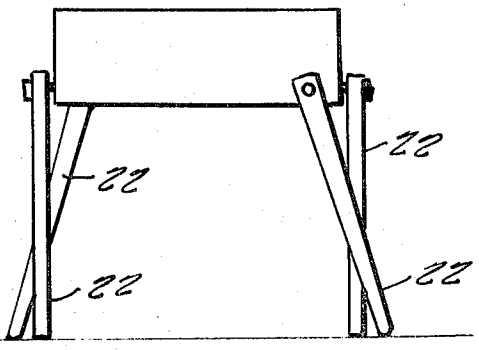


Fig. 11

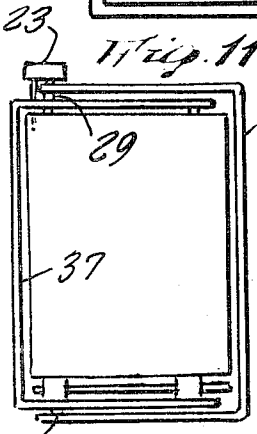


Fig. 13

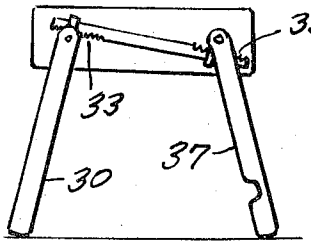


Fig. 10

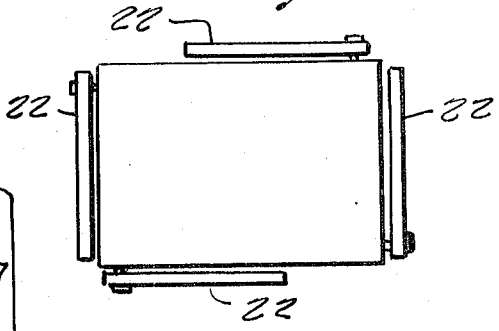


Fig. 12

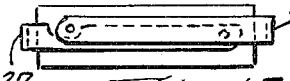


Fig. 15

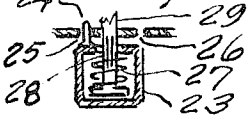
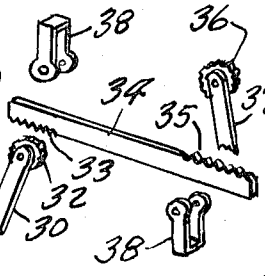


Fig. 14



POWER SAW UTILITY CASE

This invention relates generally to tool chests.

A principal object of the present invention is to provide a power saw utility case adaptable to carry and have on hand all the necessary items needed in a storage bin, such as extra saw blades, rip guide bar, electric plug adapter, wrench and the like, such as the lead cord rolled up, and wherein the case additionally serves as a saw rest while on a job.

Another object is to provide a power saw utility case wherein carrying of the case is done by the use of the handle of the power saw.

Yet, another object is to provide a power saw utility case, which includes foldable legs for raising the case to a convenient level for use on the job, and wherein the legs are able to be folded out of the way when the case is carried.

Other objects are to provide a POWER SAW UTILITY CASE which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawing wherein:

FIG. 1 is a perspective view of one form of the invention.

FIGS. 2 and 3 are modified designs thereof.

FIG. 4 is a perspective view of a construction for a different base type.

FIG. 5 is a perspective view of yet another design of the invention.

FIG. 6 is a perspective view of the invention provided with foldable legs.

FIG. 7 is a bottom view thereof in folded position.

FIG. 8 is a top view thereof with legs in extended position.

FIG. 9 is a side view of a modified design of the invention.

FIG. 10 is a bottom view thereof shown in folded position.

FIGS. 11 through 15 show a modified design of the invention, in which the rotation of a single knob brings all the legs down together or else brings them up all together, the knob locking the legs in either one of the positions.

FIG. 11 is a top view thereof shown with legs in folded position.

FIG. 12 is a side view thereof.

FIG. 13 is a similar view with the legs in extended position.

FIG. 14 is a view of the interconnecting mechanism between the legs.

FIG. 15 is a cross section of the knob showing the locking mechanism.

Reference is now made to FIGS. 1 and 2. The case 11 is made of metal. The panel 12 serves as a rest for the saw. A raised bar 13 is spread from the top of case walls to fit the thickness of the saw base. A rear turnbuckle 14 or some other type of clasp is provided. A front clasp 15 is provided which has to be mounted in different positions of the saw bases. There is one saw base that is unable to clasp on the front. In this case the power saw would necessarily be redesigned for a clasp to catch on such as notching out an opening in the front angle bar, or else redesigning the case to put two clasps, one on each side of the front. The saw would have to have a different bar 18 as shown in FIG. 2.

An opening 17 is approximately 1 ¼ inch wide for the saw guard to fit through easily. Clasps 14 and 15 must clear the saw rest while in use on a job.

Access into the case is through an opening 16, this opening being also used to tuck away the power saw's own electric cord.

This type of case would have to be made to fit the different types of saw bases. The width of the case should be approximately double the width of the saw base so to permit a person's hand to reacch into the storage bin. Therefore, while most saw bases are approximately 6 inches wide, the case therefore would be about 12 inches wide.

Reference is now made to FIG. 3 of the drawings. If a universal type would be regarded to be more feasable to exploit commercially, the bar 13 would have to be able to be rasised and lowered so to fit the different thickness of saw bases, or else the clasps be able to be adjustable for this purpose. The front bar 13 would have to be able to move forward and backward to fit the different lengths of saw bases. This would not seem feasable for a short saw to be carrying a 16 inch long case. The front clasp 15 would have to be able to be placed in different positions. The construction shown in FIG. 4 would be necessary for a different base type which requires clamping only over the corners of the case rather than at points intermediate the corners. Should this universal type case be possible, then a smaller adjustable case would be ideal for the 6 inch power saw and a larger one for the 7 ¼ and 7 ½ power saws. In FIG. 3, the reference numeral 19 represents wing nuts. Slots 15*a* and 19*a* are provided for adjusting positions of members 15 and 19 respectively.

In use, the case can be used on a job by placing to the right of a work horse. The handle of the saw carries the case when the clasps are fastened to the base of the saw. This will prevent bending a guard and ruining a blade when placing the power saw on a ground. Thus this also protects the guard and blade. It serves numerous purposes and is not bulky.

Reference is now made to FIG. 5. The large area 12 on which the saw rests should be of non metallic material such as plywood, masonite, or the like. If it would be of steel it is believed it would create either static or magnetic electricity. Also there would be a clamor each time the saw is set down.

In FIGS. 6 to 8, the present invention is shown having foldable legs 20 mounted on the underside of the case, the legs being about 10 to 11 inches long so that the case would be at ideal height when used as a rest for the saw. The case according in such design should be no less wide than approximately the leg length or 12 inches, so that when folded away it does not protrude. The legs would include locking means to retain them locked either in extended or folded away position. The legs would spread outward a little, when extended, for greater stability and prevent toppling over. Rubber cushion tips 21 on the leg ends would prevent the legs to slide while the case is used as a saw rest, and the rubber type would prevent marring a floor finish. The legs are made to be easily moved between extended and retracted position by one hand only, while a workman's other hand is occupied holding the saw or other objects.

In FIGS. 9 and 10 the legs 22 are shown mounted on a sides of the case.

In FIGS. **11** to **15**, all the legs are pivotable between extended and retracted positions by a rotatable knob **23**, for greater convenience and less effort. The legs are firmly locked in either position by the knob being prevented to rotate by a pin **24** extending from the knob and being receivable in either opening **25** and **26** on the side of the case. A spring **27** prevents the pin to disengage. In order to move the legs, knob **23** must first be pulled a bit outwardly so the pin clears the opening and is then rotated. Knob **23** is slidable on spline **28** of shaft **29** secured to U-shaped leg **30** which also pivots on pin **31** axially aligned with shaft **29**. A gear **32** fixedly secured to leg **30** engages toothed rack **33** of a slidable bar **34** which at its opposite end has a toothed rack **35** engaging gear **36** secured fixedly to U-shaped leg **37**, whereby pivotal movement of leg **30** causes leg **37** to also move. The toothed racks on opposite edges of the bar **34** cause legs to pivot in opposite directions so that they fold around opposite sides of the case. Retainers **38** prevent disengagement of the gears and racks. Thus a convenient easy leg operation is accomplished by a single knob being rotated.

While various changes may be made in the detail construction, it is understood that such changes will be within the spirit and scope of the present invention as is defined by the appended claims.

We claim as follows:

1. A power saw utility case comprising a bottom, a plurality of transverse upstanding sides and means affixed to the top of said sides for retaining a saw base within the case, said means including panel for supporting a saw spaced from and spanning a portion of said bottom providing openings between the sides and said panel, said means further including a pair of spaced bars, spaced from and adjustably overlying respective sides and the base mounted on clamping units projecting upward from said sides to points above said bars including clamping nuts above said bars.

2. A case as in claim **1** in combination with pivotably retractable legs mounted on the exterior of said sides, said legs being pivotal to various positions to support the case at various heights from a supporting surface, including means for locking the legs in said positions.

3. A case as in claim **1** in further combination with an actuator mounted on the case said actuator being manually movable, said legs being connected and responsive to said actuator whereby movement of said actuator results in movement of said legs to said positions.

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