

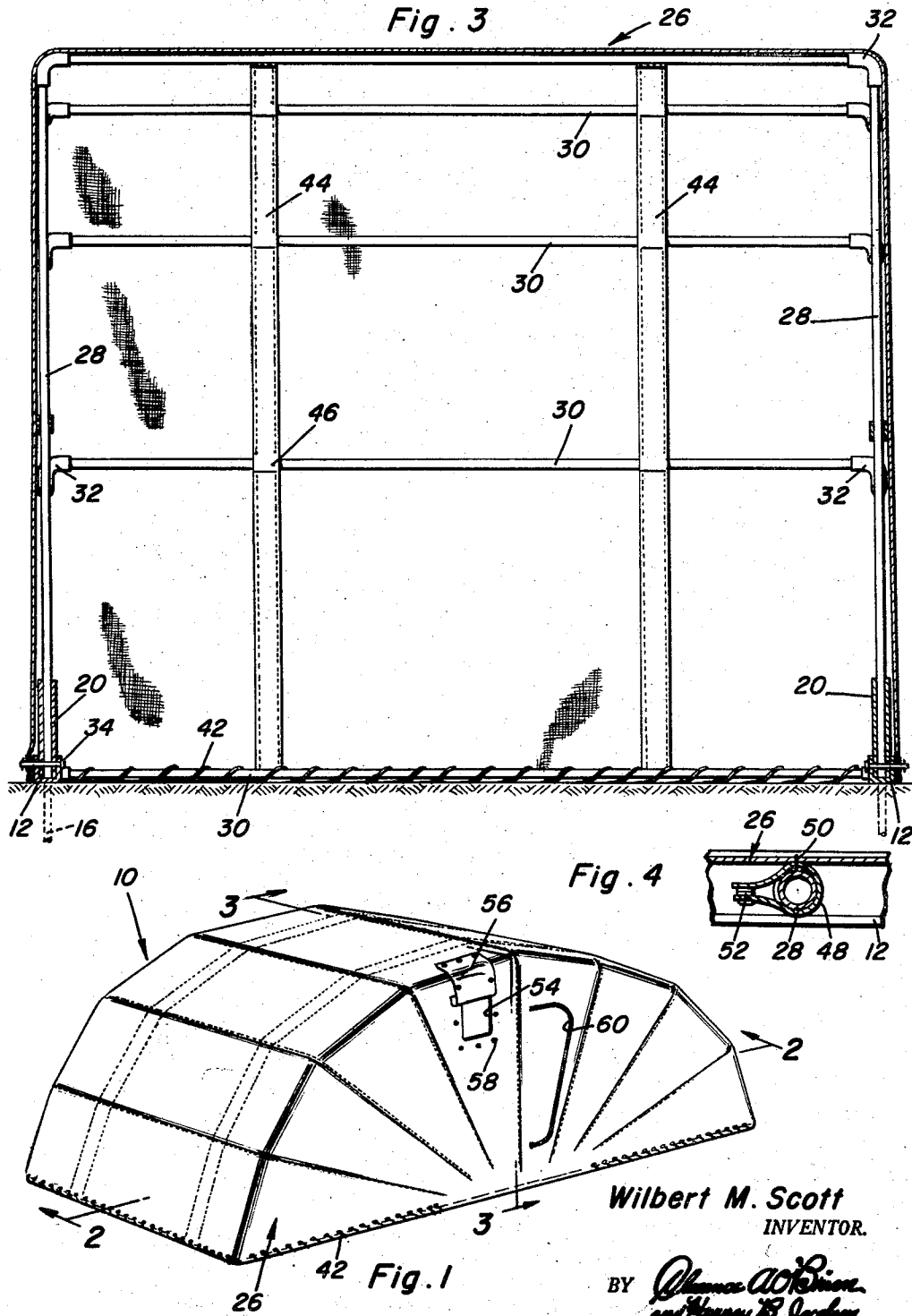
Oct. 21, 1958

W. M. SCOTT
COLLAPSIBLE HUT

2,856,942

Filed Dec. 7, 1956

2 Sheets-Sheet 1



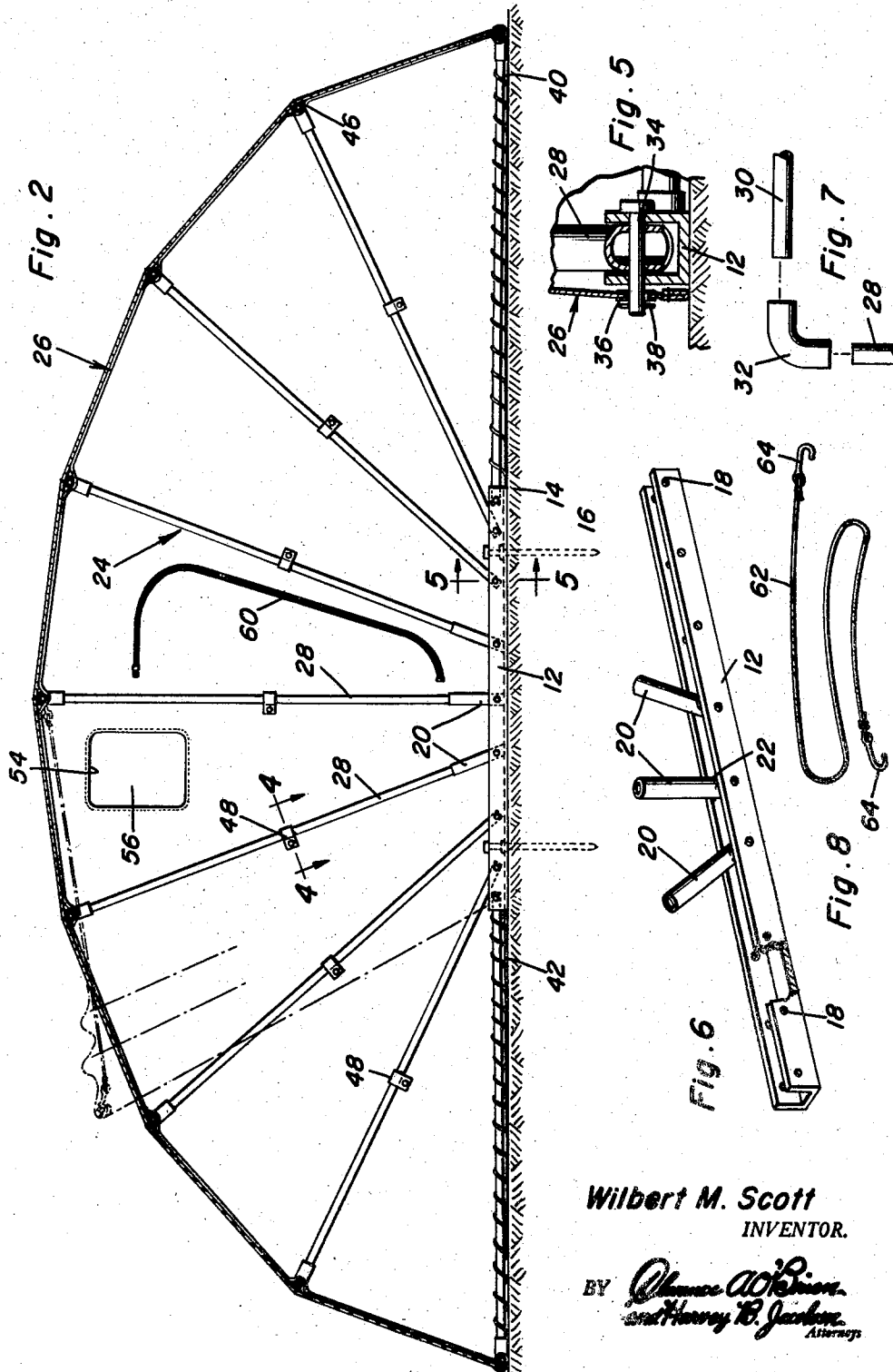
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1

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COLLAPSIBLE HUT

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2 Claims. (Cl. 135—4)

The present invention generally relates to a protective device in the form of a tent-like hut specifically adapted for use in protecting an automobile, but which may be employed for various purposes.

An object of the present invention is to provide a collapsible hut which may be easily assembled and disassembled and generally forms a complete enclosure for a vehicle with either end of the hut being constructed for raising for providing access to the interior from either end of the hut, thus facilitating the utility thereof.

Yet another object of the present invention is to provide a collapsible hut having a skeleton frame supporting a flexible canvas member forming a complete enclosure for a vehicle or the like, wherein one end of the hut may be raised for gaining access to the interior thereof, and the entire device is constructed in a simple manner, yet of sufficient rigidity to withstand the usual weather conditions encountered for protecting the vehicle from rain, snow or the like.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the collapsible hut of the present invention in fully extended position;

Figure 2 is a longitudinal, vertical sectional view taken substantially upon a plane passing along section line 2—2 of Figure 1 illustrating various details of construction thereof;

Figure 3 is a transverse, vertical sectional view taken substantially upon a plane passing along section line 3—3 of Figure 1 illustrating further structural arrangements of the collapsible hut;

Figure 4 is a detailed sectional view taken substantially upon a plane passing along section line 4—4 of Figure 2 illustrating the manner of attaching the brace rods or framing to the canvas;

Figure 5 is a detailed sectional view taken substantially upon a plane passing along section line 5—5 of Figure 2 illustrating the construction for retaining the edges of the tent in position and also hinging certain of the brace members to the base member;

Figure 6 is a fragmentary perspective view of one of the base members employed in the present invention;

Figure 7 is a detailed exploded plan view illustrating the knockdown construction of the frame members; and

Figure 8 is a perspective view of the flexible line for holding the hut in a partially folded condition for access to the interior thereof.

Referring now specifically to the drawings, the numeral 10 generally designates the collapsible hut of the present invention which in general outline is semicylindrical and may be disposed on any relatively smooth ground surface and is specifically adapted for receiving

2

an automobile, thus taking the place of a garage and providing adequate protection for the automobile.

The construction of the collapsible hut 10 includes a pair of elongated channel-shaped base members 12 which face upwardly and which are secured to the ground surface 14 by a pair of elongated, ground-penetrating members 16 extending through the web of the channel-shaped base member 12, as illustrated in Figure 2, thus mounting the base members 12 in parallel spaced relation. The upstanding flanges of the channel-shaped base members 12 are each provided with a plurality of longitudinally spaced, transverse openings 18. Centrally on the base member 12 is provided three upstanding, tubular sockets 20, with the central tubular socket 20 being at the center of the base member 12 and the socket member 20 on each side thereof being inclined outwardly. The sockets 20 are rigidly secured to the base member 12, as by welding 22 or the like.

A plurality of inverted, U-shaped bows generally designated by numeral 24 extend between the base members 12 and support a canvas member generally designated by the numeral 26.

Each of the bows 24 includes a pair of spaced parallel leg portions 28, a transverse bight portion 30 and a U-shaped connector 32 between each leg 28 and the bight portion 30, wherein the connector 32 is detachable from the leg members 28 and the bight portion 30, thus permitting the bows 24 to be completely disassembled.

Three of the bows 24 are provided with the leg members 28 telescopically received in the three rigid sockets 20, thus providing a rigid support for the central portion of the tent member 26.

Longitudinally, outwardly of the three central bows 24, which are rigid with the sockets 20, is a pair of longitudinally spaced bows having the bottom ends of the leg portions 28 thereof hingedly secured between the flanges of the channel-shaped base members 12 by a transverse pivot pin 34 extending outwardly from the interior of the base members 12, with the outer ends thereof extending through grommets 36 in the canvas member 26. A transverse pin 38 is provided in the free end of the pin 34 for holding the grommet 36 thereon, thus holding down that portion of the canvas 26 alongside of the channel-shaped base members 12. It is pointed out that similar openings are provided through the inner ends of the sockets 20, as shown in Figure 6, whereby the canvas 26 will be secured at longitudinally spaced points completely along the channel-shaped base member 12. The outermost of the three pivotal bows 24 is secured to the side edges of the canvas 26 by a string lacing 40 which is wound around the leg portions 28 and through grommets 42. The outer edge of the canvas 26 is also secured to the bight portion 30 in the same manner, with the weight of the outermost bows 24 acting to retain the canvas 26 in a taut condition.

The interior surface of the upper wall of the canvas 26 is provided with a pair of longitudinal flexible straps 44 having portions 46 thereof forming loops for receiving the bight members 30, thus attaching the upper wall of the canvas member 26 to the bows 24.

Each of the legs 28 is secured to the side walls of the canvas 26 by a loop 48 having one side thereof stitched to the canvas 26 by stitching 50 and having free end portions detachably connected together by snap fastener means 52 or any suitable equivalent fastening means whereby the loops 48 may be detachably engaged with the legs 28 for permitting removal of the legs 28 therefrom for permitting complete disassembly of the canvas from the framework formed by the bows 24.

An opening 54 may be provided in each side wall of the canvas 26, with the closure 56 being provided there-

3

for and held in closed position by snap fastener elements 58. Also, an entrance opening may be provided centrally in the canvas side wall by a zipper construction 60 which is generally disposed in a U-shaped manner, thus permitting opening of a flap for entrance into and exit from the interior of the hut without the necessity for lifting the end bow 24.

An elongated, flexible line 62 is provided with a hook 64 on each end thereof, with one hook 64 being positioned over the bight portion 30 of the central bow 24 and the other hook 64 adapted to releasably engage the bight portion 30 of the outermost bow 24, thus holding the outermost bow in a generally upwardly inclined position approaching a vertical position, as illustrated in Figure 2, thus permitting entry of a vehicle into the interior of the hut.

The tent member or canvas member 26 may be of any suitable waterproof material and the U-shaped tubular construction of the bows 24 form a sufficient rigidity to withstand various weather conditions, and the entire device may be readily disassembled or assembled and is adapted for assembly in any locality with a minimum of effort.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A collapsible hut comprising a central base assembly, a plurality of inverted U-shaped framing bows detachably mounted on said base assembly, the outermost of said bows being pivotally secured to said base assembly, and a flexible waterproof covering containing an auxiliary hut entrance therein extending over the periphery of all of said bows and being detachably con-

4

nected thereto and being detachably connected to the base assembly, said detachable connections including a series of apertures in said covering, a series of apertures in said base assembly, pin means extending through said covering apertures and said base apertures and maintained in place by transverse pins through said pin means, lacings carried by said end bows and passing through said apertures in said covering for maintaining said covering on said bows, flexible straps affixed to the covering along the length thereof, said straps and said covering sandwiching said bows therebetween, said base assembly including a pair of spaced parallel longitudinally elongated upwardly facing channel-shaped members, means extending through said channel-shaped members penetrating the ground and securing the channel-shaped members in position, a plurality of upstanding sockets rigidly mounted on the central portion of each channel-shaped member, and a central bow detachably supported in a rigid position between the pairs of sockets for stationarily supporting the central portion of the covering.

2. The combination as defined in claim 1 including an elongated flexible line having two ends, a hook on each of said ends, said line adapted to cooperate with the bight of said central bow and either of said pivotally connected bows situated furthest from said central bow for drawing said pivotally connected bows to a generally vertical position whereby an automobile can gain entrance to the hut from either side of said central bow depending on which pivotal bow has been drawn to the vertical position.

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