



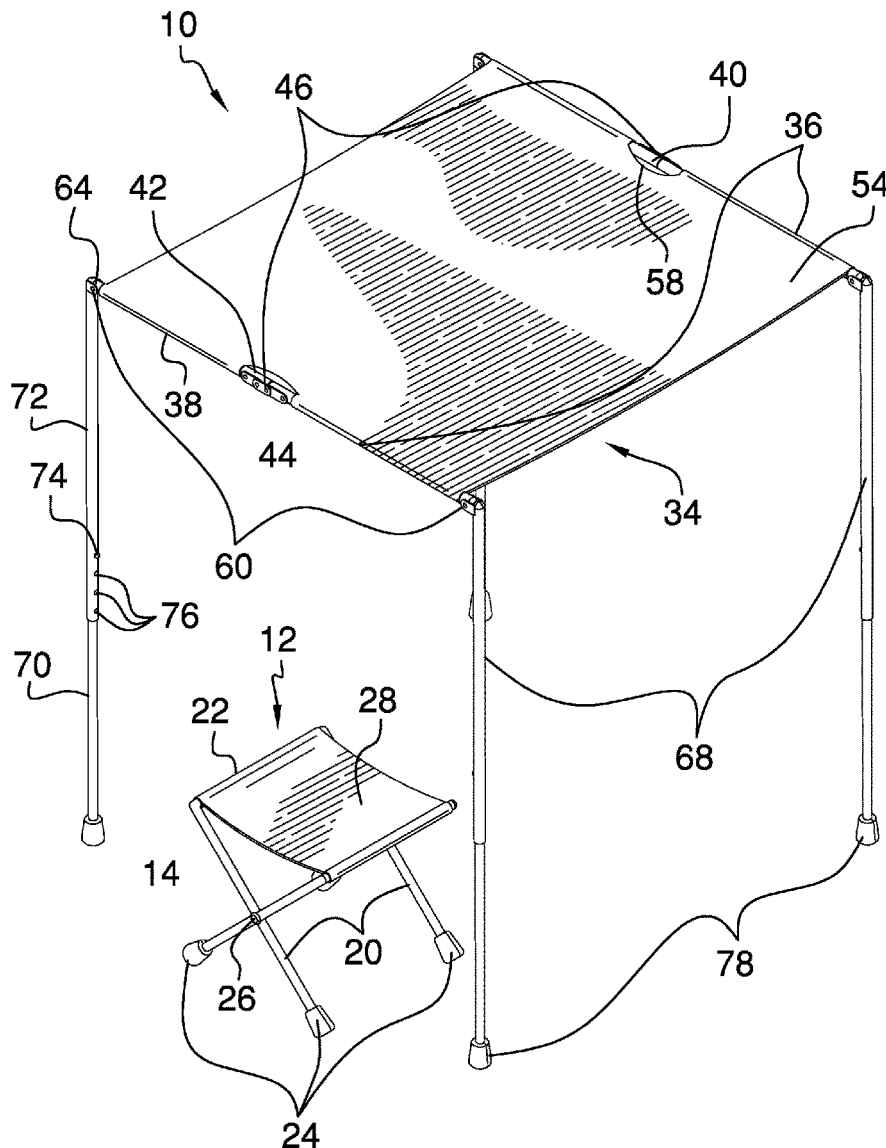
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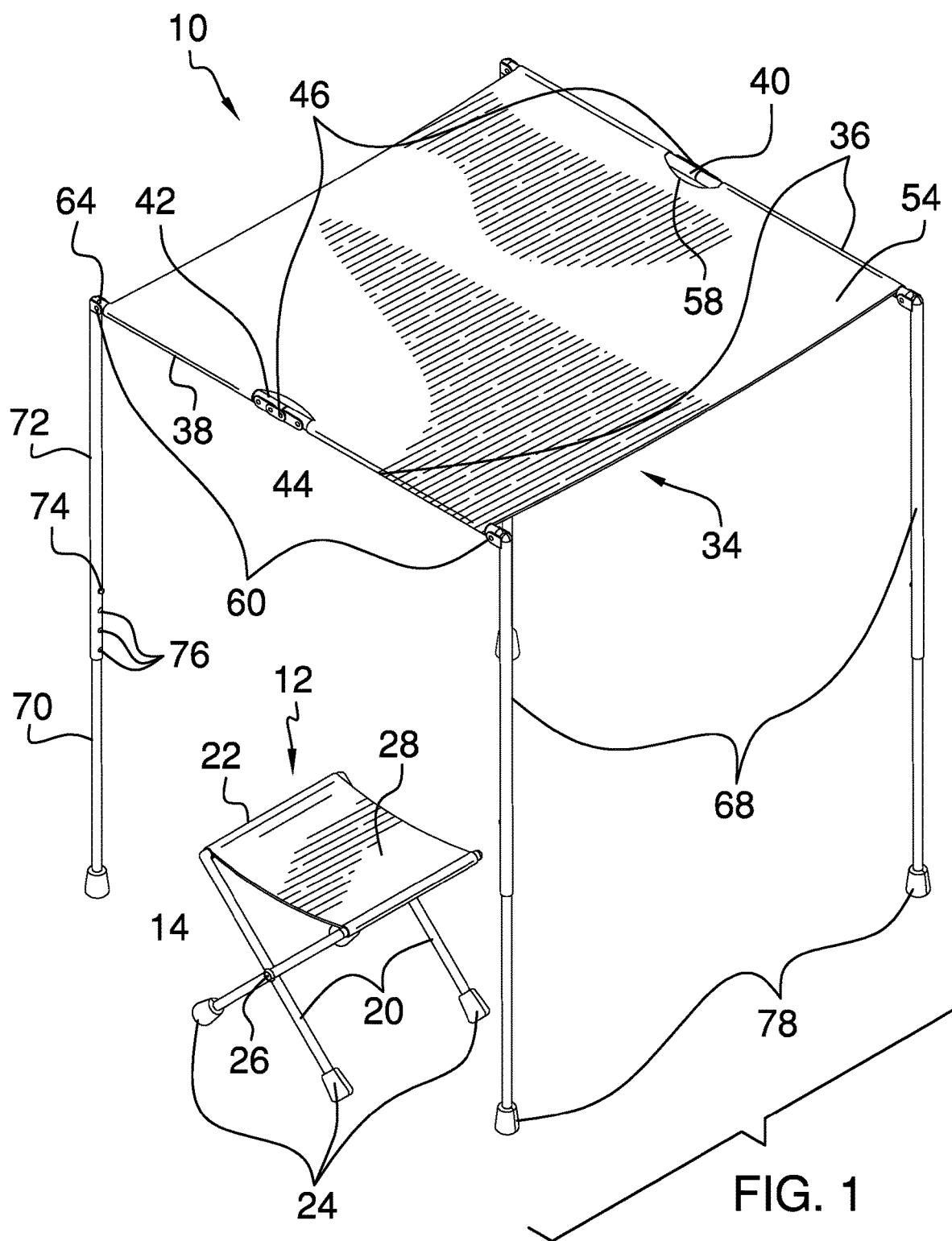
(19) **United States**(12) **Patent Application Publication**
Morgan(10) **Pub. No.: US 2021/0007496 A1**(43) **Pub. Date: Jan. 14, 2021**(54) **COLLAPSIBLE STOOL AND COVER ASSEMBLY**(71) Applicant: **Gerald Morgan**, Mesa, AZ (US)(72) Inventor: **Gerald Morgan**, Mesa, AZ (US)(21) Appl. No.: **16/507,487**(22) Filed: **Jul. 10, 2019****Publication Classification**(51) **Int. Cl.**
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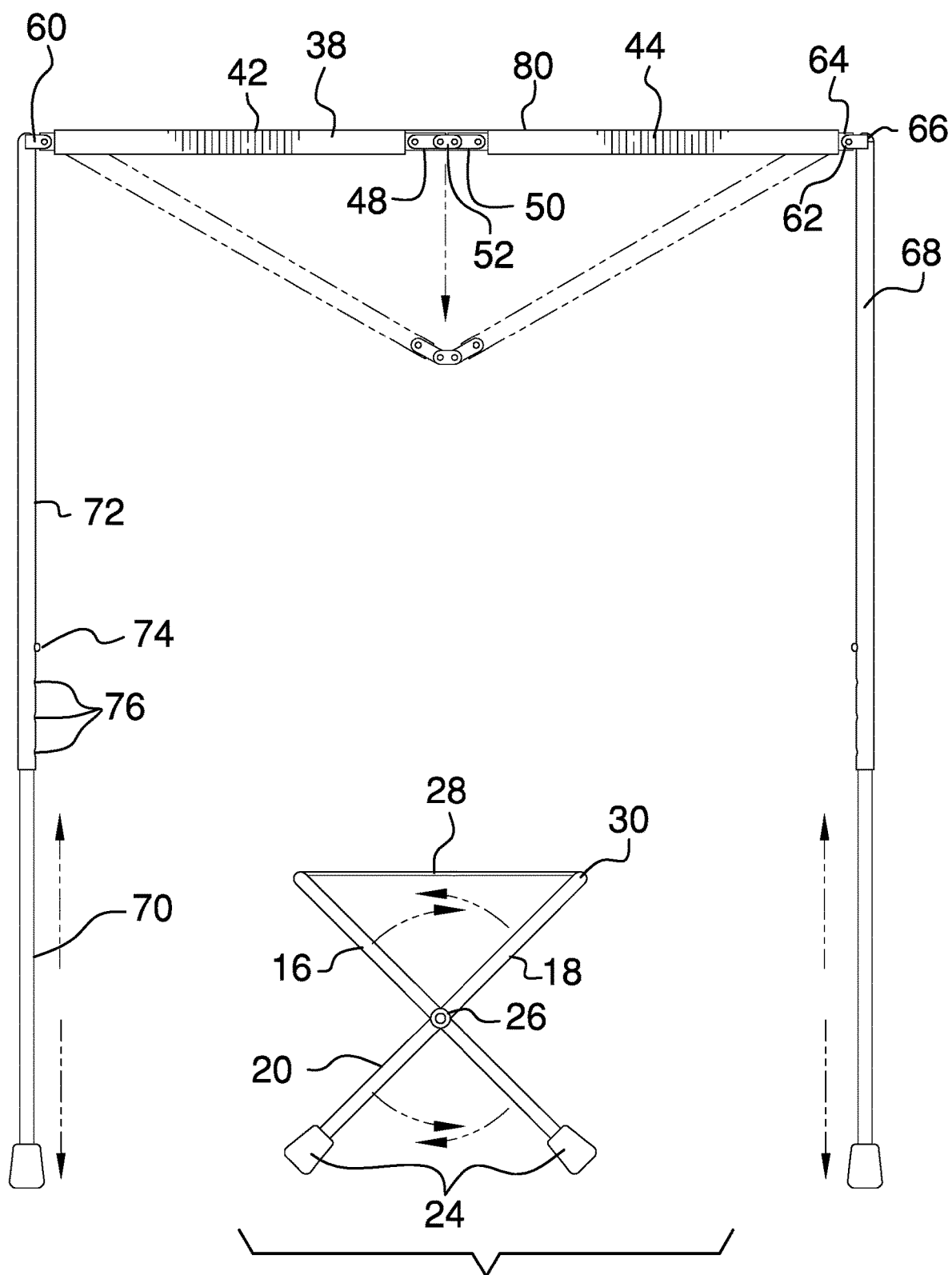
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ABSTRACT

A collapsible stool and cover assembly for providing portable seating and shade includes a stool comprising a pair of stool legs having a pair of stool axles. A foldable stool sling is coupled to the pair of stool legs and limits the range of motion of the pair of stool legs between an expanded position with the stool sling taut and an alternative folded position. A shade cover comprises a pair of horizontal supports. Each of the pair of supports comprises a first half and a second half. A pair of support hinges is coupled to the pair of supports. Each of the pair of support hinges is coupled between the first half and the second half of the pair of supports. A cover sling is coupled to the pair of horizontal supports. The shade cover moves between an erect position and an alternate collapsed position.







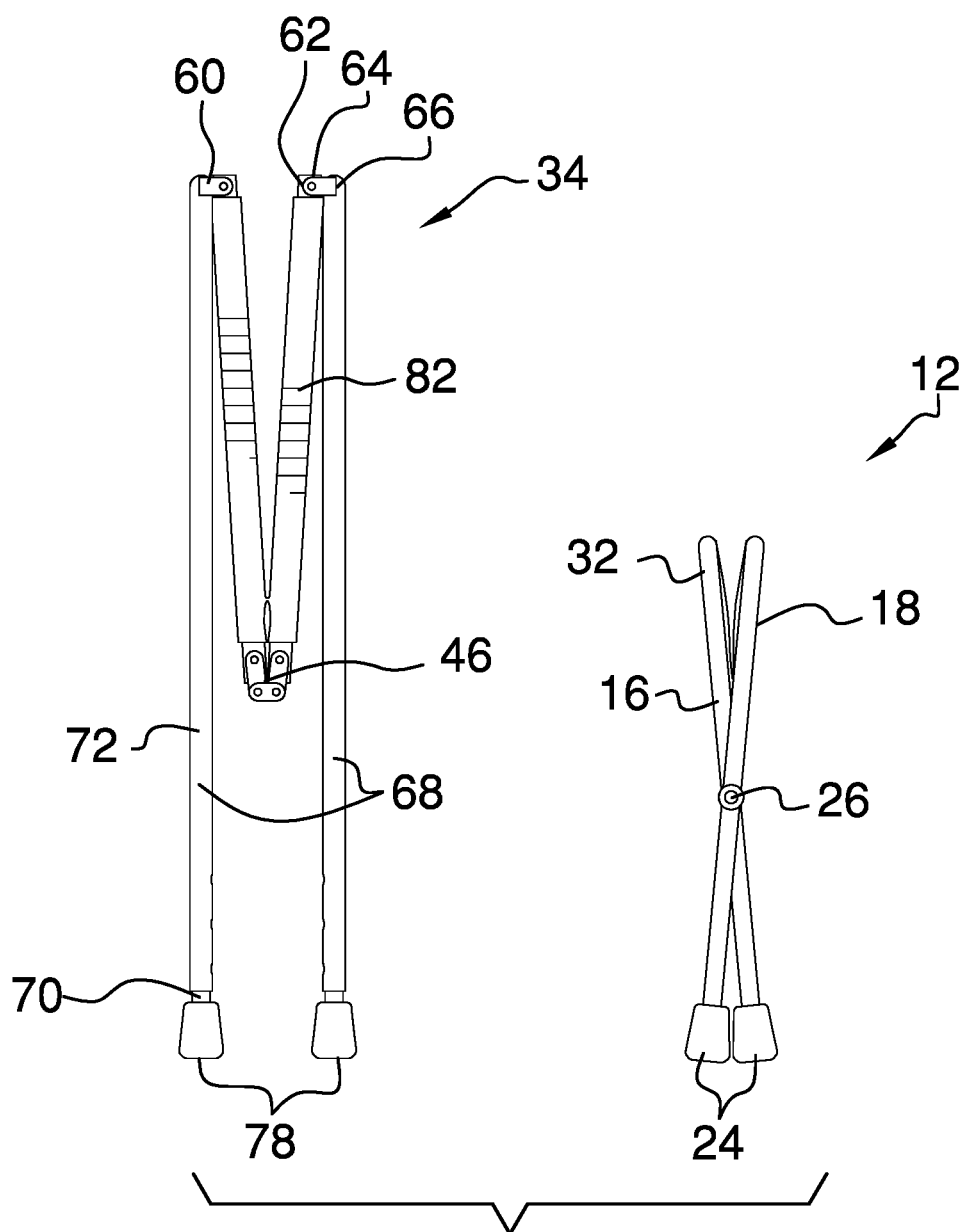


FIG. 3

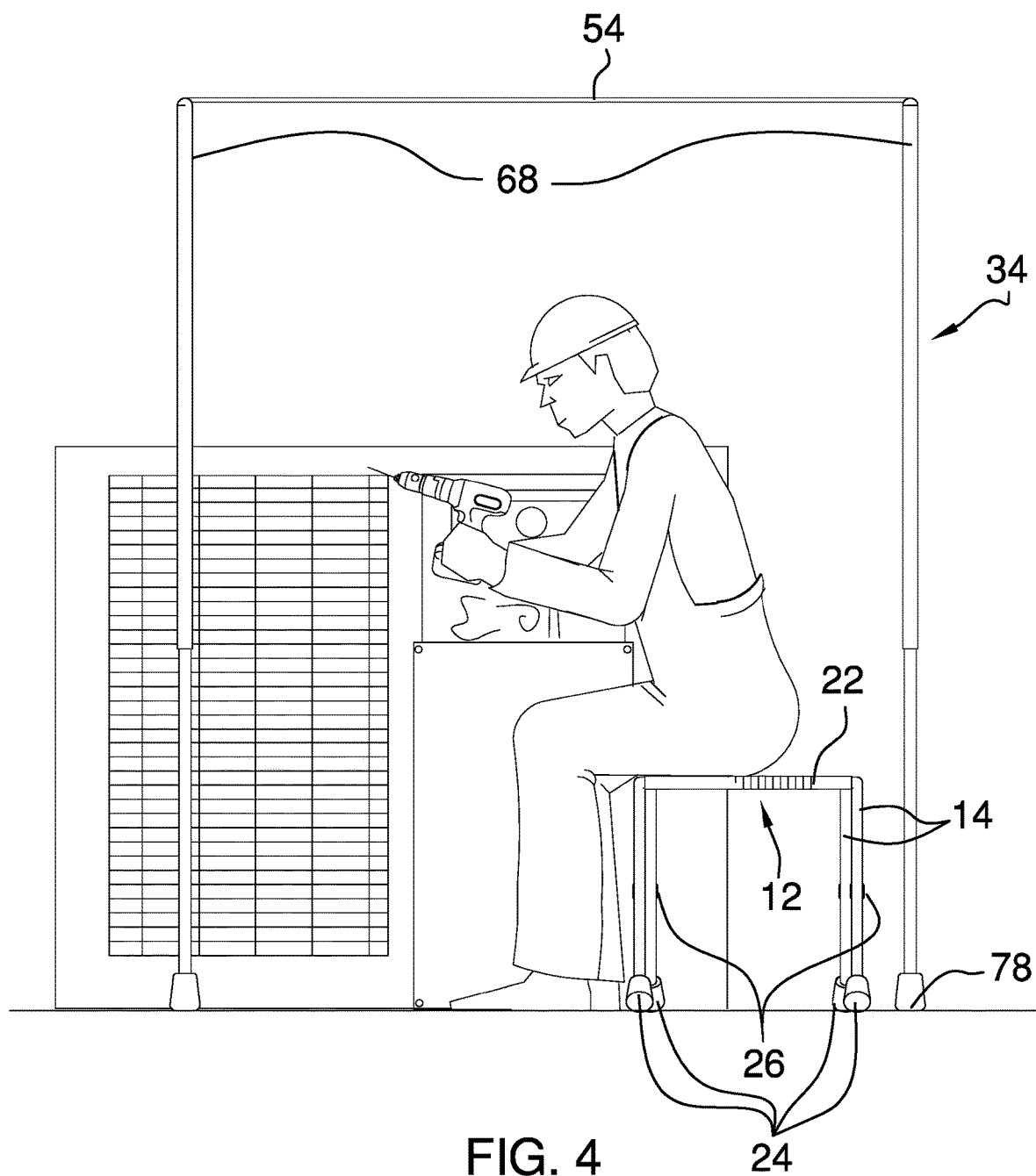


FIG. 4

COLLAPSIBLE STOOL AND COVER ASSEMBLY

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

[0002] Not Applicable

THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

[0003] Not Applicable

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC OR AS A TEXT FILE VIA THE OFFICE ELECTRONIC FILING SYSTEM

[0004] Not Applicable

STATEMENT REGARDING PRIOR DISCLOSURES BY THE INVENTOR OR JOINT INVENTOR

[0005] Not Applicable

BACKGROUND OF THE INVENTION

(1) Field of the Invention

(2) Description of Related Art Including Information Disclosed Under 37 CFR 1.97 and 1.98

[0006] The disclosure and prior art relates to seating arrangements and more particularly pertains to a new seating arrangement for providing portable seating and shade.

BRIEF SUMMARY OF THE INVENTION

[0007] An embodiment of the disclosure meets the needs presented above by generally comprising a stool comprising a pair of stool legs comprising a first and a second stool leg. Each of the pair of stool legs is a squared U-shape comprising a pair of arms and a medial portion between the pair of arms. A pair of stool axles is coupled to the pair of stool legs. The pair of stool axles pivotably join the pair of arms of the first stool leg to the pair of arms of the second stool leg in a crossed position. A stool sling is coupled to the pair of stool legs. The stool sling is coupled around, and extends between, the medial portion of each of the first and the second stool leg. The stool sling is foldable and limits the range of motion of the pair of stool legs between an expanded position with the stool sling taut and an alternative folded position with the medial portion of the first stool leg adjacent the medial portion of the second stool leg. A shade cover comprises a pair of horizontal supports comprising a front support and a back support. Each of the pair of supports comprises a first half and a second half. A pair of support hinges is coupled to the pair of supports. Each of the pair of support hinges is coupled between the first half and the second half of the pair of supports. A cover sling is coupled to the pair of horizontal supports. The cover sling is coupled around, and extends between, the front support and the back

support. The cover sling has a front cutout and a back cutout exposing the pair of support hinges. A set of leg hinges is coupled to a distal end of the first half and the second half of each of the pair of supports. A set of cover legs is coupled to the set of leg hinges. The shade cover moves between an erect position with the first and second half of each of the pair of supports being colinear. The set of cover legs is perpendicular with the pair of supports and an alternate collapsed position with the set of cover legs forming an M-shape with each of the pair of supports.

[0008] There has thus been outlined, rather broadly, the more important features of the disclosure in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the disclosure that will be described hereinafter and which will form the subject matter of the claims appended hereto.

[0009] The objects of the disclosure, along with the various features of novelty which characterize the disclosure, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWING(S)

[0010] The disclosure will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

[0011] FIG. 1 is an isometric view of a collapsible stool and cover assembly according to an embodiment of the disclosure.

[0012] FIG. 2 is a front elevation view of an embodiment of the disclosure.

[0013] FIG. 3 is a front elevation view of an embodiment of the disclosure.

[0014] FIG. 4 is an in-use view of an embodiment of the disclosure.

DETAILED DESCRIPTION OF THE INVENTION

[0015] With reference now to the drawings, and in particular to FIGS. 1 through 4 thereof, a new seating arrangement embodying the principles and concepts of an embodiment of the disclosure and generally designated by the reference numeral 10 will be described.

[0016] As best illustrated in FIGS. 1 through 4, the collapsible stool and cover assembly 10 generally comprises a stool 12 comprising a pair of stool legs 14 comprising a first 16 and a second stool leg 18. Each of the pair of stool legs 14 is a squared U-shape comprising a pair of arms 20 and a medial portion 22 between the pair of arms 20. A set of stool feet 24 is coupled to the pair of arms 20 of each of the pair of stool legs 14. A pair of stool axles 26 is coupled to the pair of stool legs 14. The pair of stool axles 26 pivotably joins the pair of arms 20 of the first stool leg 16 to the pair of arms 20 of the second stool leg 18 in a crossed position. A stool sling 28 is coupled to the pair of stool legs 14. The stool sling 28 is coupled around, and extends between, the medial portion 22 of each of the first 16 and the second stool leg 18. The stool sling 28 is foldable and limits the range of motion of the pair of stool legs 14 between an expanded position 30 with the stool sling 28 taut and an alternative folded position

32 with the medial portion 22 of the first stool leg 16 adjacent the medial portion 22 of the second stool leg 18. The pair of arms 20 of the first stool leg 16 may be substantially perpendicular to the pair of arms 20 of the second stool leg 18 in the expanded position 30.

[0017] A shade cover 34 comprises a pair of horizontal supports 36. The pair of supports 36 comprises a front support 38 and a back support 40. Each of the pair of supports 36 comprises a first half 42 and a second half 44. A pair of support hinges 46 is coupled between the first half 42 and the second half 44 of the pair of supports 36. Each of the support hinges 46 comprises a first hinge portion 48 fixedly coupled to the first half 42, a second hinge portion 50 fixedly coupled to the second half 44, and an obround medial hinge portion 52 pivotably coupled to each of the first hinge portion 48 and the second hinge portion 50. The support hinges 46 allow the first half 42 and the second half 44 to fold without interfering. A cover sling 54 is coupled to the pair of horizontal supports 36. The cover sling 54 is coupled around, and extends between, the front support 38 and the back support 40. The cover sling 54 has a front cutout 56 and a back cutout 58 exposing the pair of support hinges 46. The front cutout 56 and the back cutout 58 allow the support hinges 46 to bend.

[0018] A set of leg hinges 60 is coupled to the pair of supports 36. Each of the set of leg hinges 60 has a rounded end 62 pivotably coupled to a distal end 64 of the first half 42 and the second half 44 of each of the pair of supports 36 and a flat end 66. A set of cover legs 68 is coupled to the set of leg hinges 60. Each of the set of cover legs 68 has a lower portion 70 and an upper portion 72. The flat end 66 of each leg hinge 60 is fixedly coupled to the upper portion 72 of the respective cover leg 68 such that the leg hinge 60 extends perpendicularly from the cover leg 68. The lower portion 70 is telescopic within the upper portion 72 and has a spring-loaded button 74 selectively engageable with a plurality of adjustment apertures 76 extending through the upper portion 72. A set of cover feet 78 is coupled to the set of cover legs 68. Each of the set of stool feet 24 and each of the set of cover feet 78 may be a truncated conical shape and may be rubberized for improved grip. The shade cover 34 moves between an erect position 80 with the first 42 and second half 44 of each of the pair of supports 36 being colinear and the set of cover legs 68 perpendicular with the pair of supports 36 and an alternate collapsed position 82 with the set of cover legs 68 forming an M-shape with each of the pair of supports 36.

[0019] In use, the pair of stool legs 14 is moved to the expanded position 30 allowing the user to sit on the stool sling 28. The shade cover 34 is placed in the erect position 80 above the stool 12 and each of the set of cover legs 68 is adjusted to a desired height to provide a shaded working area for the user.

[0020] With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of an embodiment enabled by the disclosure, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by an embodiment of the disclosure.

[0021] Therefore, the foregoing is considered as illustrative only of the principles of the disclosure. Further, since

numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the disclosure 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 disclosure. In this patent document, the word “comprising” is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article “a” does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be only one of the elements.

1. A collapsible stool and cover assembly comprising:

a stool, the stool comprising:

- a pair of stool legs, the pair of stool legs comprising a first and a second stool leg, each of the pair of stool legs being a squared U-shape comprising a pair of arms and a medial portion between the pair of arms;
- a pair of stool axles coupled to the pair of stool legs, the pair of stool axles pivotably joining the pair of arms of the first stool leg to the pair of arms of the second stool leg in a crossed position; and
- a stool sling coupled to the pair of stool legs, the stool sling being coupled around, and extending between, the medial portion of each of the first and the second stool leg, the stool sling being foldable and limiting the range of motion of the pair of stool legs between an expanded position with the stool sling taut and an alternative folded position with the medial portion of the first stool leg adjacent the medial portion of the second stool leg; and

a shade cover, the shade cover comprising:

- a pair of horizontal supports, the pair of supports comprising a front support and a back support, each of the pair of supports comprising a first half and a second half;
- a pair of support hinges coupled to the pair of supports, each of the pair of support hinges being coupled between the first half and the second half of the pair of supports;
- a cover sling coupled to the pair of horizontal supports, the cover sling being coupled around, and extending between, the front support and the back support, the cover sling having a front cutout and a back cutout exposing the pair of support hinges;
- a set of leg hinges coupled to the pair of supports, the set of leg hinges being coupled to a distal end of the first half and the second half of each of the pair of supports; and
- a set of cover legs coupled to the set of leg hinges; wherein the shade cover moves between an erect position with the first and second half of each of the pair of supports being colinear and the set of cover legs perpendicular with the pair of supports and an alternate collapsed position with the set of cover legs forming an M-shape with each of the pair of supports.

2. The collapsible stool and cover assembly of claim 1 further comprising a set of stool feet coupled to the pair of stool legs, the set of stool feet being coupled to the pair of arms of each of the pair of stool legs, and a set of cover feet coupled to the set of cover legs.

3. The collapsible stool and cover assembly of claim 2 further comprising each of the set of stool feet and each of the set of cover feet being a truncated conical shape.

4. The collapsible stool and cover assembly of claim 1 further comprising each of the set of cover legs being telescopable.

5. The collapsible stool and cover assembly of claim 1 further comprising each of the set of cover legs having a lower portion and an upper portion, the lower portion being telescopable within the upper portion and having a spring-loaded button selectively engageable with a plurality of adjustment apertures extending through the upper portion.

6. The collapsible stool and cover assembly of claim 1 further comprising each of the support hinges comprises a first hinge portion fixedly coupled to the first half, a second hinge portion fixedly coupled to the second half, and an obround medial hinge portion pivotably coupled to each of the first hinge portion and the second hinge portion.

7. The collapsible stool and cover assembly of claim 1 further comprising each of the set of leg hinges having a rounded end pivotably coupled to the distal end and a flat end fixedly coupled to the respective cover leg such that the leg hinge extends perpendicularly from the cover leg.

8. A collapsible stool and cover assembly comprising:

a stool, the stool comprising:

a pair of stool legs, the pair of stool legs comprising a first and a second stool leg, each of the pair of stool legs being a squared U-shape comprising a pair of arms and a medial portion between the pair of arms;

a set of stool feet coupled to the pair of stool legs, the set of stool feet being coupled to the pair of arms of each of the pair of stool legs;

a pair of stool axles coupled to the pair of stool legs, the pair of stool axles pivotably joining the pair of arms of the first stool leg to the pair of arms of the second stool leg in a crossed position; and

a stool sling coupled to the pair of stool legs, the stool sling being coupled around, and extending between, the medial portion of each of the first and the second stool leg, the stool sling being foldable and limiting the range of motion of the pair of stool legs between an expanded position with the stool sling taut and an alternative folded position with the medial portion of the first stool leg adjacent the medial portion of the second stool leg; and

a shade cover, the shade cover comprising:

a pair of horizontal supports, the pair of supports comprising a front support and a back support, each of the pair of supports comprising a first half and a second half;

a pair of support hinges coupled to the pair of supports, each of the pair of support hinges being coupled between the first half and the second half of the pair of supports, each of the support hinges comprises a first hinge portion fixedly coupled to the first half, a second hinge portion fixedly coupled to the second half, and an obround medial hinge portion pivotably coupled to each of the first hinge portion and the second hinge portion;

a cover sling coupled to the pair of horizontal supports, the cover sling being coupled around, and extending between, the front support and the back support, the cover sling having a front cutout and a back cutout exposing the pair of support hinges;

a set of leg hinges coupled to the pair of supports, each of the set of leg hinges having a rounded end pivotably coupled to a distal end of the first half and the second half of each of the pair of supports and a flat end;

a set of cover legs coupled to the set of leg hinges, each of the set of cover legs having a lower portion and an upper portion, the flat end of each leg hinge being fixedly coupled to the upper portion of the respective cover leg such that the leg hinge extends perpendicularly from the cover leg, the lower portion being telescopable within the upper portion and having a spring-loaded button selectively engageable with a plurality of adjustment apertures extending through the upper portion; and

a set of cover feet coupled to the set of cover legs, each of the set of stool feet and each of the set of cover feet being a truncated conical shape;

wherein the shade cover moves between an erect position with the first and second half of each of the pair of supports being colinear and the set of cover legs perpendicular with the pair of supports and an alternate collapsed position with the set of cover legs forming an M-shape with each of the pair of supports.

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