

July 21, 1942.

A. VARADY

2,290,786

FOLDING BED REST FOR BEACHES, CAMPS, ETC

Filed Feb. 15, 1941

3 Sheets-Sheet 1

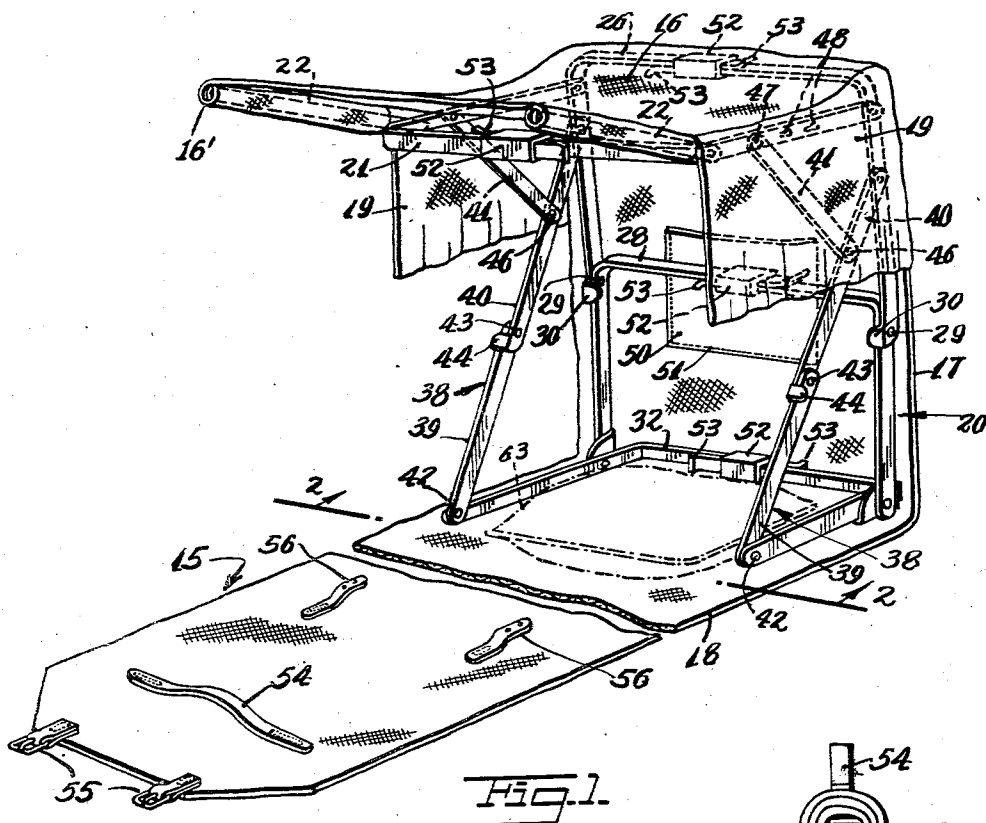


Fig. 1.

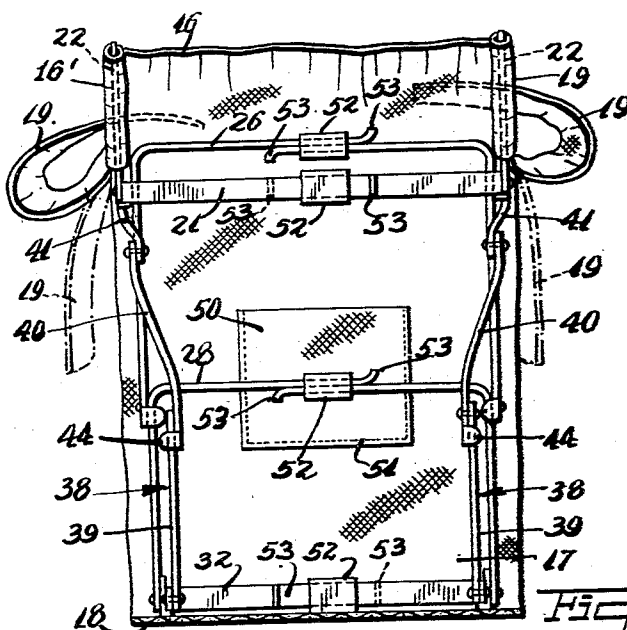


Fig. 2.

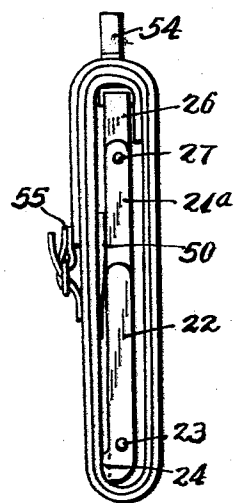


Fig. 12.

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3 Sheets-Sheet 2

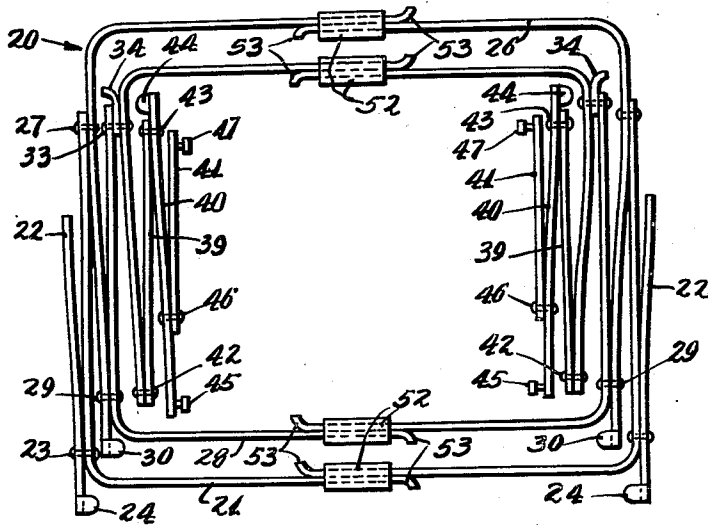


Fig. 3.

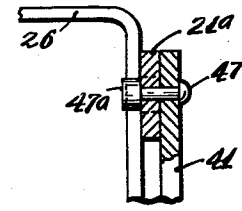


Fig. 5.

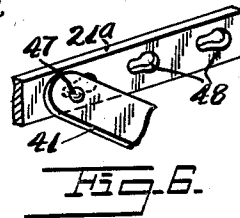


Fig. 6.

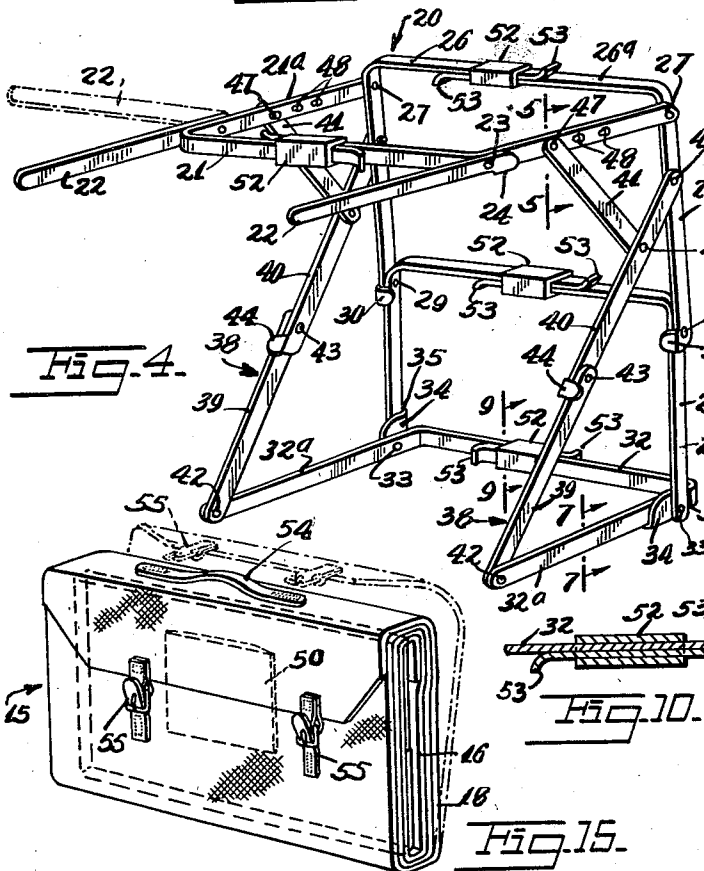


Fig. 4.

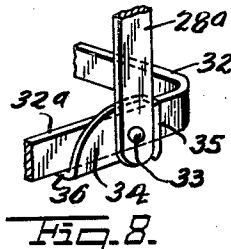


Fig. 8.

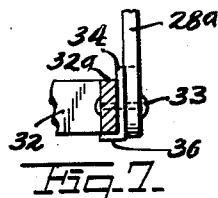


Fig. 7.

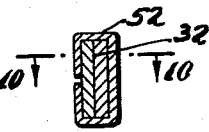


Fig. 9.

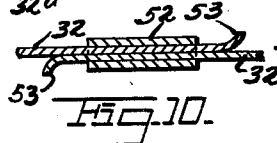


Fig. 10.

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3 Sheets-Sheet 3

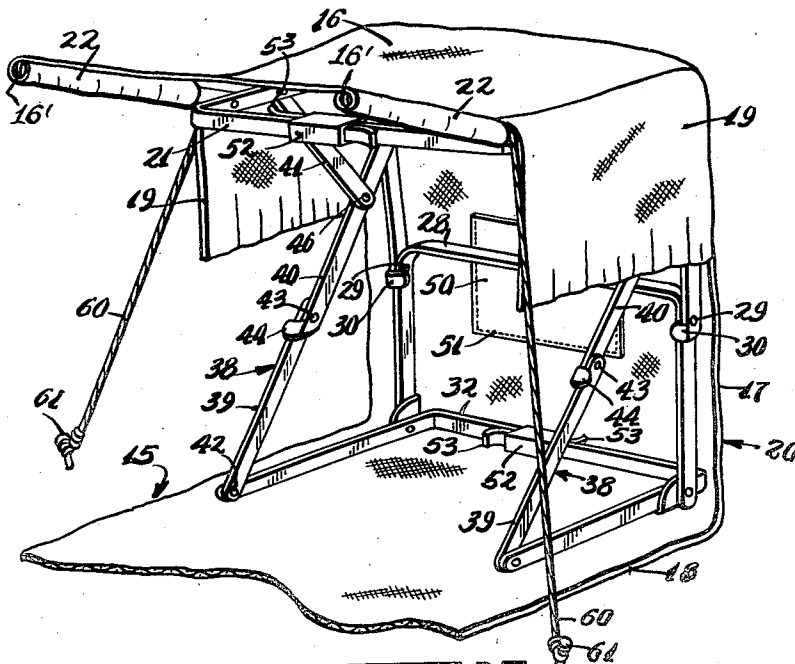


Fig. 16.

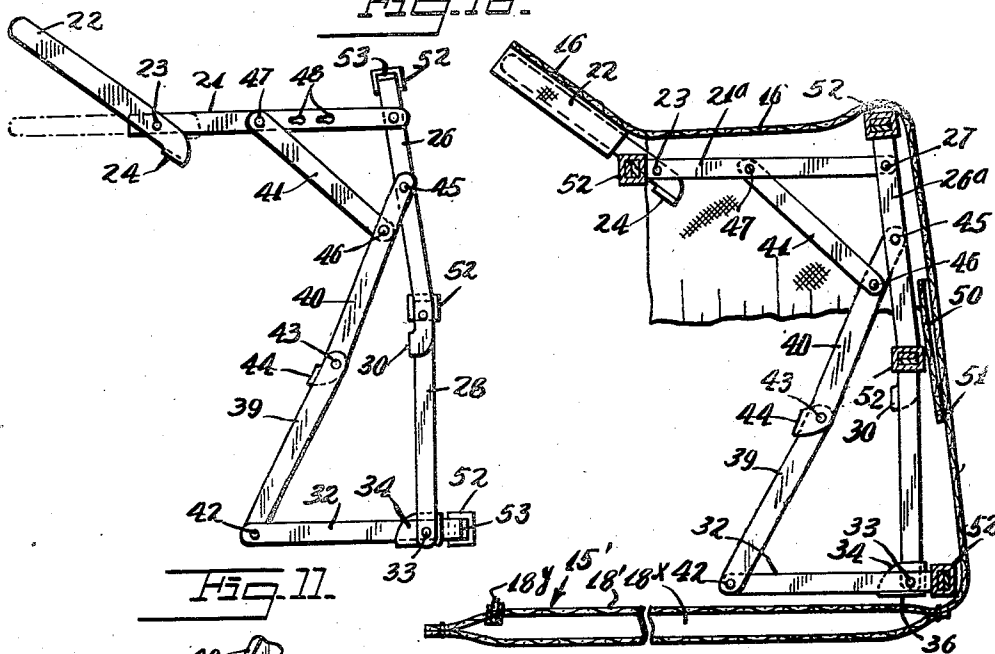


Fig. 11.

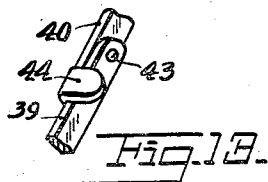


Fig. 12.

Fig. 14.

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UNITED STATES PATENT OFFICE

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FOLDING BED REST FOR BEACHES, CAMPS,
ETC.

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Application February 15, 1941, Serial No. 379,091

6 Claims. (Cl. 5—344)

This invention relates to new and useful improvements in a folding bed rest for beaches, camps, and other places.

More specifically the invention proposes a bed rest which is characterized by a cloth casing of a certain construction, and a foldable frame of a construction capable of holding the cloth casing in an open position and capable of being folded in a certain way.

More specifically the invention proposes to characterize the cloth casing by the fact that it has a top portion with tubular sockets adapted to cooperate in a certain way with foldable rods of said foldable frame to hold the top portion of the casing extended in a certain way. Moreover it is also proposed that the cloth casing having a back portion which continues from said top portion, and also it is proposed that the casing have a bottom portion continuing from the back portion. This bottom portion may rest on the ground or other supporting surface. The frame is so constructed as to hold the back portion, and the top portion in positions to shield a person relaxing on the bottom portion of said casing.

An important feature of the foldable frame is that it may fold up into a very small compass in which all of the component parts are disposed in a common plane. It is proposed that the cloth casing be so constructed and arranged that it may be wrapped around the folded frame to form a carrying case for the bed rest when the latter is not being used.

Still further the invention proposes the construction of a foldable bed rest as mentioned, which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of a foldable bed rest constructed in accordance with this invention, and illustrated in a fully opened position.

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is an elevational view of the foldable frame of the device, shown per se, and illustrated in its fully folded condition.

Fig. 4 is a perspective view of the frame shown in Fig. 3 in its fully opened position.

Fig. 5 is a fragmentary vertical sectional view taken on the line 5—5 of Fig. 4.

Fig. 6 is a fragmentary enlarged perspective view of a portion of Fig. 4.

Fig. 7 is a fragmentary vertical sectional view taken on the line 7—7 of Fig. 4.

Fig. 8 is a fragmentary perspective view of a portion of Fig. 4.

Fig. 9 is a fragmentary enlarged vertical sectional view taken on the line 9—9 of Fig. 4.

Fig. 10 is a fragmentary horizontal sectional view taken on the line 10—10 of Fig. 9.

Fig. 11 is a side elevational view of the frame as it is shown in Fig. 4, but illustrated with the folding rods thereof extended slightly upwards.

Fig. 12 is a side elevational view of the foldable bed rest illustrated in its completely folded position, with the cloth casing mounted thereon and acting as a carrying case.

Fig. 13 is a fragmentary enlarged detailed view of a portion of Fig. 4.

Fig. 14 is a longitudinal vertical sectional view of a foldable bed rest constructed in accordance with another form of this invention.

Fig. 15 is a perspective view of the bed rest in folded condition, used as a handbag.

Fig. 16 is a fragmentary perspective view, similar to Fig. 1, but illustrating another modification of the invention.

The foldable bed rest in accordance with this invention includes a cloth casing 15 provided with a top portion 16 having tubular sockets 16' along the front portions of its sides. The top portion 16 extends rearwards and continues into a back portion 17 which continues into a bottom portion 18. This bottom portion 18 is adapted to extend along the ground, or other supporting surface when the foldable bed rest is being used. A pair of side flaps 19 are arranged upon the sides of the top portion 16 rearwards of the tubular sockets 16'.

These side flaps 19 may be folded upwards if desired as indicated by the full lines in Fig. 2. The dot and dash lines in this figure represent the side flaps 19 in their depending positions. The cloth casing 15 is normally held in an open position by a foldable frame 20.

The foldable frame 20 includes a horizontal U-shaped top section 21, having its side arms 21^a extending rearwards and having a pair of extending foldable rods 22 mounted on the said side arms 21^a. The foldable rods 22 engage into the tubular sockets 16' of the cloth casing 15 when the foldable bed rest is being used. These rods 22 serve to support the front portion of the top

portion 16 of said cloth casing. The foldable rods 22 are mounted upon the side arms 21^a by pintles 23 engaging through these parts. The side rods 22 are extended from along the outer faces of the side arms 21^a.

The inner ends of the rods 22 are formed with small inwardly directed lugs 24 which engage beneath the bottom edges of the side arms 21^a normally holding the rods 22 in their extended positions. The arrangement is such that the front ends of the rods 22 may be pivoted upwards to desirable angular positions as indicated by the dot and dash lines 22' in Fig. 4, or for full lines in Fig. 11. In these slightly upwardly pivoted positions, the rods 22 engage into the tubular sockets 16', to hold the front portion of the top portion 16 slightly extended upwards. When the foldable frame 20 is completely folded, the rods 22 are pivoted upwards and rearwards from the positions shown in Fig. 4, through 180° so as to extend along the sides of the side arms 21^a as clearly shown in Fig. 3.

The foldable frame 20 also includes a vertical inverted U-shaped back section 26 with its side arms 26^a extending downwards and in between the side arms 21^a of the top section 21. Pivots 27 pivotally connect the side arms 21^a with the upper portions of the side arms 26^a. The foldable frame 20 is also provided with another vertical inverted U-shaped back section 28 having its side arms 28^a extending downwards and in between the side arms 26^a of the back section 26. Pintles 29 pivotally connect the side arms 26^a and 28^a together. These pintles 29 are located at the lower extremities of the side arms 26^a and at the upper extremities of the side arms 28^a.

The back sections 26 and 28 are arranged so as to be foldable when the foldable frame 20 is folded up. These back sections are also arranged to maintain extended positions when the foldable frame 20 is in its open position. This latter means includes lugs 30 on the bottom ends of the side arms 26^a and normally engaging against the front edges of the side arms 28^a. These lugs 30 are so arranged that normally the top back section 26 leans slightly forwards as clearly shown in Figs. 4 and 11. Furthermore the arrangement is such that the back section 28 may be pivoted upwards to assume a position within the back section 26 as clearly shown in Fig. 3. These back sections 26 and 28 in their open positions are adapted to extend along the back portion 17 of the cloth casing 15 to support the cloth casing as clearly shown in Fig. 1.

A horizontal U-shaped base section 32 has its side arms 32^a extending frontwards and set in between the bottom ends of the side arms 28^a of the back section 28. Pintles 33 pivotally connect the base section 32 and the back section 28 pivotally together. This arrangement permits the base section 32 to be folded upwards into the back section 28.

Means is provided for limiting relative pivoting of the base section 32 and the back section 28 to a right angle position, as illustrated in Fig. 4. This means includes a limiting member 34 mounted on each pivot 33 and located in between the side arms 28^a and 32^a. Each limiting member 34 has a rear lug 35 which extends along the rear edge of its side arm 28^a holding it in the vertical position. Each limiting member 34 is provided with a bottom lug 36. These bottom lugs extend beneath the bottom edges of the side arms 32^a holding them in horizontal positions. The arrangement is such that the limiting

members 34 do not interfere with the base section 32 being folded upwards into the bottom section 28.

Foldable side braces 38 are pivotally connected with the base section 32 and extend upwards and rearwards, and are releasably connected with the back section 26 and the top section 21 for rigidly holding these sections together as a unit. Each foldable side brace 38 consists of three brace arms indicated by reference numerals 39, 40, 41, which are connected together in a certain way. More specifically, the brace arms 39 are pivotally connected at their bottom ends by pivots 42 with the front ends of the side arms 32^a. The adjacent ends of the brace arms 39 and 40 are pivotally connected with pintles 43. The brace arms 40 are provided with lugs 44 which extend over the top edges of the brace arms 39 immediately below the pintles 43. The arrangement is such that the brace arms 39 and 40 may be folded relative to each other by pivoting the brace arms 40 downward along the sides of the brace arms 39.

The lugs 44 limit the extended positions of the brace arms 39 and 40 to positions in which they are slightly past their dead center in their opened positions, to rigidly hold them in these positions. The upper ends of the brace arms 40 are provided with pegs 45, which releasably engage into socket openings formed in the side arms 26^a. The arrangement is such that the brace arms 40 may be pulled outwards to disconnect the pegs 45 from their openings.

The brace arms 41 are pivotally connected at the bottom ends by pintles 46 with points intermediate of the ends of the brace arms 40. The top ends of the brace arms 41 are provided with pegs 47 which are releasably connected with socket openings 48 in the nature of bayonet openings (see Fig. 6 which represents large view of a section of one of the side arms 21^a). The pegs 47 have enlarged heads 47^a, see Fig. 5, which may pass through the large ends of the bayonet openings 48 and into the small ends, to lock these parts together. The bayonet openings 48 are arranged so that the small ends are to the front. The side arms 21^a are provided with a plurality of the bayonet openings 48 so that the pegs 47 will be selectively engaged with the openings 48, to hold the top section 21 in various upwardly extended positions.

Each of the U-shaped sections forming the frame 20 is arranged to be laterally collapsed. The arrangement consists in each of the central portions of these sections being of separate parts and provided with a tubular socket 52 receiving the end portions of these parts. The extremities of these parts have outwardly flared portions 53 acting as stops when they engage against the ends of the tubular sockets 52. The arrangement is such the various U-shaped sections, previously indicated by the reference numerals 21, 26, 28 and 32, may be collapsed into a small compass by pressing the parts thereof together on opposite sides. They may thereafter be extended by gripping the opposite sides and by pulling the parts back into open positions. These various U-shaped sections are illustrated on the drawings in the extended positions. The collapsing of these sections may be best understood by examining Fig. 3, and noting that the frame 20 may be rendered smaller in width by pressing the sides together so that the separate parts of the central portions of the various U-shaped sections overlap each other.

The back portion 17 of the casing 15 is provided with a pocket 50 adapted to hold various small objects when the bed rest is opened, and also when it is in the folded condition. This pocket 50 merely comprises a layer of cloth material disposed upon the inner face of the back portion 17 and secured in position by lines of stitches 51 extended along its side and bottom edges, so that the pocket is open at the top. The casing 15 is also provided with a transversely mounted handle 54 which may be used as a handle for carrying the bed rest in its completely folded position, as illustrated in Fig. 12. The casing 15 is also provided with straps and buckles 55 mounted upon the end of the bottom portion 18 and cooperative with complementary straps 56 mounted upon the bottom portion 18.

The operation of the device may be best understood from an inspection of Figs. 1, 3, 4, 11 and 12. In Fig. 1 the foldable frame 20 is shown supporting the cloth casing in a position which represents the fully opened position of the bed rest. A person may relax on the bottom portion 18, so that the head is shielded from the sun by the back portion 17 and the top portion 16. If it is desired the top portion 16 may be supported at various upwardly inclined positions by forcing the pegs 47 out of their engaged bayonet openings 48 in the side arms 21^a reengaging these pegs in different ones of said bayonet openings 48.

The device may be folded up by first removing the casing 15. Then the pegs 45 and 47 may be disengaged from their complementary openings, and various U-shaped sections of the foldable frame 20, may then be folded up into position as illustrated in Fig. 3. The folded frame 20 as shown in Fig. 3 may then be laterally collapsed by forcing the sides together. Then the casing 15 may be rolled around the folded frame 20, so that the article is in the condition illustrated in Fig. 12.

In the modified form of the invention illustrated in Fig. 14 the bed rest is provided with a casing 15' which distinguishes from the casing in the prior form of the invention, in the fact that the bottom portion 18' thereof is constructed in the nature of an inflatable bag 18^x. The bag 18^x is provided with a valve 18^y through which it may be inflated. The case 15' is made from waterproof airtight material. With this arrangement the bed rest may be used in the nature of a float in the water of a lake, beach, or other place.

In other respects this form of the invention is identical to the prior form and identical parts may be recognized by the same reference numerals.

In Fig. 16, the top members 17 are shown to be braced by support ropes 60 to the ground by stakes 61 or the like.

An inflated head rest or pillow 63 may be used in connection with the folding bed rest as illustrated in Fig. 1.

It is to be understood that this folding bed rest may be made in various color combinations and of any suitable size.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I

claim as new, and desire to secure by United States Letter Patent is:

1. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising a horizontal U-shaped top section having its side arms extending rearwards and having a pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section.

2. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising, a horizontal U-shaped top section having its side arms extending rearwards and having a pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section, said U-shaped sections of said foldable frame being of separate side parts adjustably connected together at the centers thereof.

3. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising, a horizontal U-shaped top section having

its side arms extending rearwards and having a pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section, said foldable rods comprising rods pivotally mounted upon the side arms of said U-shaped top section and provided with lugs to limit pivoting to positions extending from the horizontal position rearwards through substantially 180°.

4. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising, a horizontal U-shaped top section having its side arms extending rearwards and having a pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section, one of said back sections having lugs engaging the other of said back sections to limit pivoting of these parts substantially as disclosed.

5. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising, a horizontal U-shaped top section having its side arms extending rearwards and having a

pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section, and limiting members mounted upon the pivot points of said base section and back section for limiting relative pivoting of these parts through substantially 90°.

6. In a foldable bed rest for beaches, camps, etc., having a cloth casing provided with a top portion with tubular sockets along the front portions of its sides and said top portion continuing into a back portion which continues into a bottom portion for extending along the ground or other supporting surface, a foldable frame for supporting portions of said casing and comprising, a horizontal U-shaped top section having its side arms extending rearwards and having a pair of forwardly extending foldable rods mounted on said side arms and engaging in said tubular sockets for supporting said top portion, a vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said top section and pivotally connected therewith, another vertical inverted U-shaped back section having its side arms extending downwards and set in between the side arms of said back section and pivotally foldably connected therewith, said back sections being extended along the back portion of said casing, a horizontal U-shaped base section having its side arms extending frontwards and set in between the bottom ends of the side arms of said last named back section and pivotally foldably connected therewith, and foldable side braces pivotally connected with said base section and extending upwards and releasably connected with said first named back section and top section, each of said side braces comprising a pair of brace sections pivotally connected and in end alignment with each other and provided with lugs to limit relative pivoting of these parts from a position past dead center to a folded position, one of the ends of said aligned brace sections being pivotally connected with said base section, the other of the ends of said aligned brace sections being removably connected with the upper one of said back sections, and another brace section pivotally connected with one of said brace sections and releasably connected with said top section.

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