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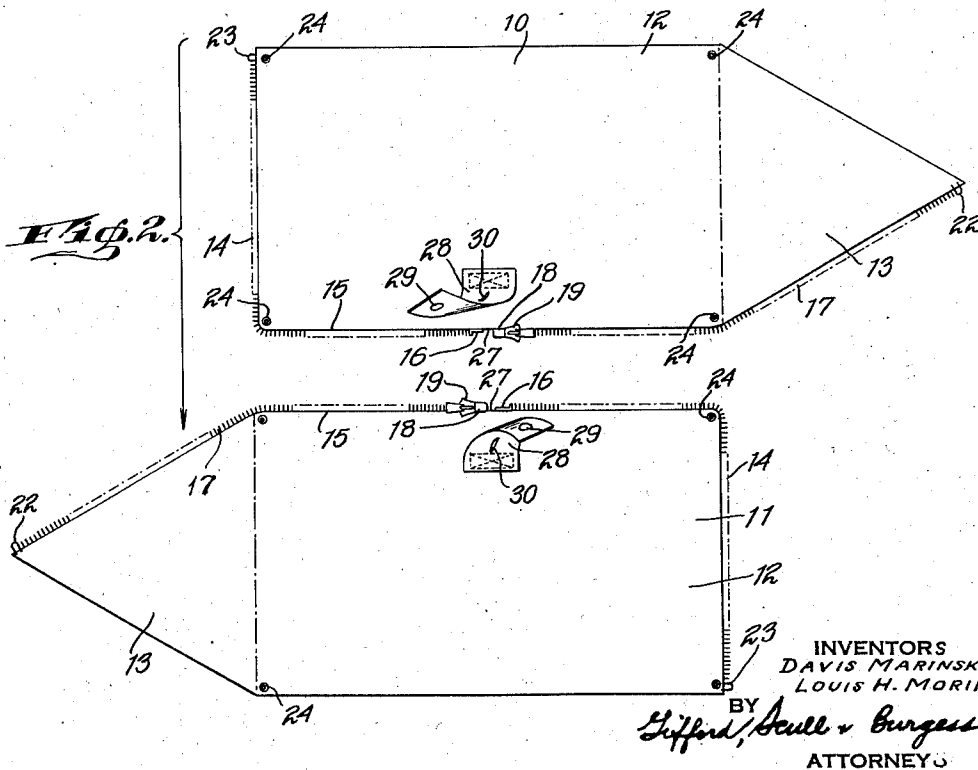
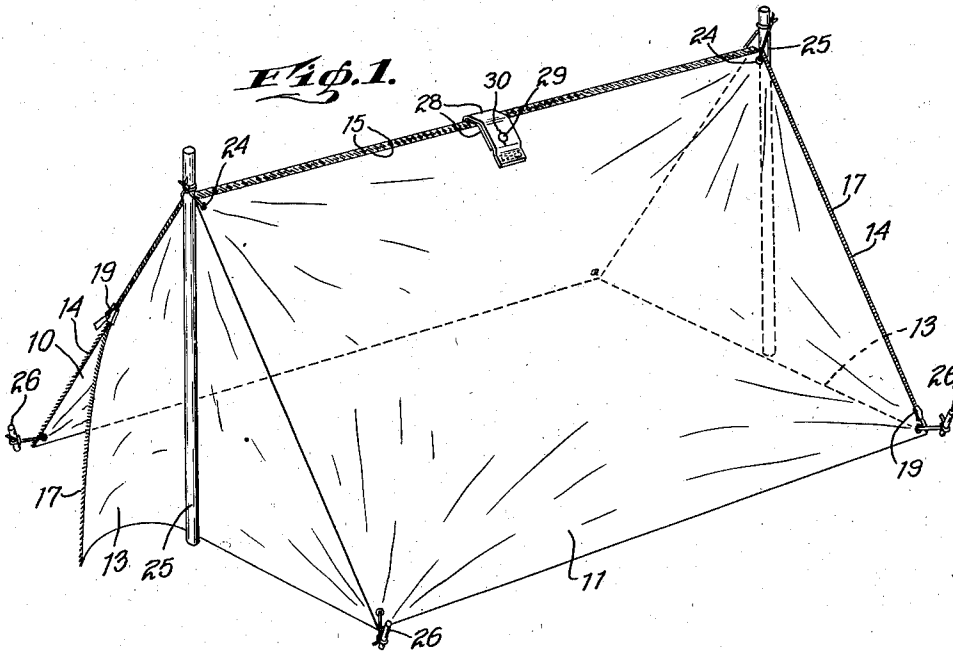
D. MARINSKY ET AL

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TENT

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2 Sheets-Sheet 1



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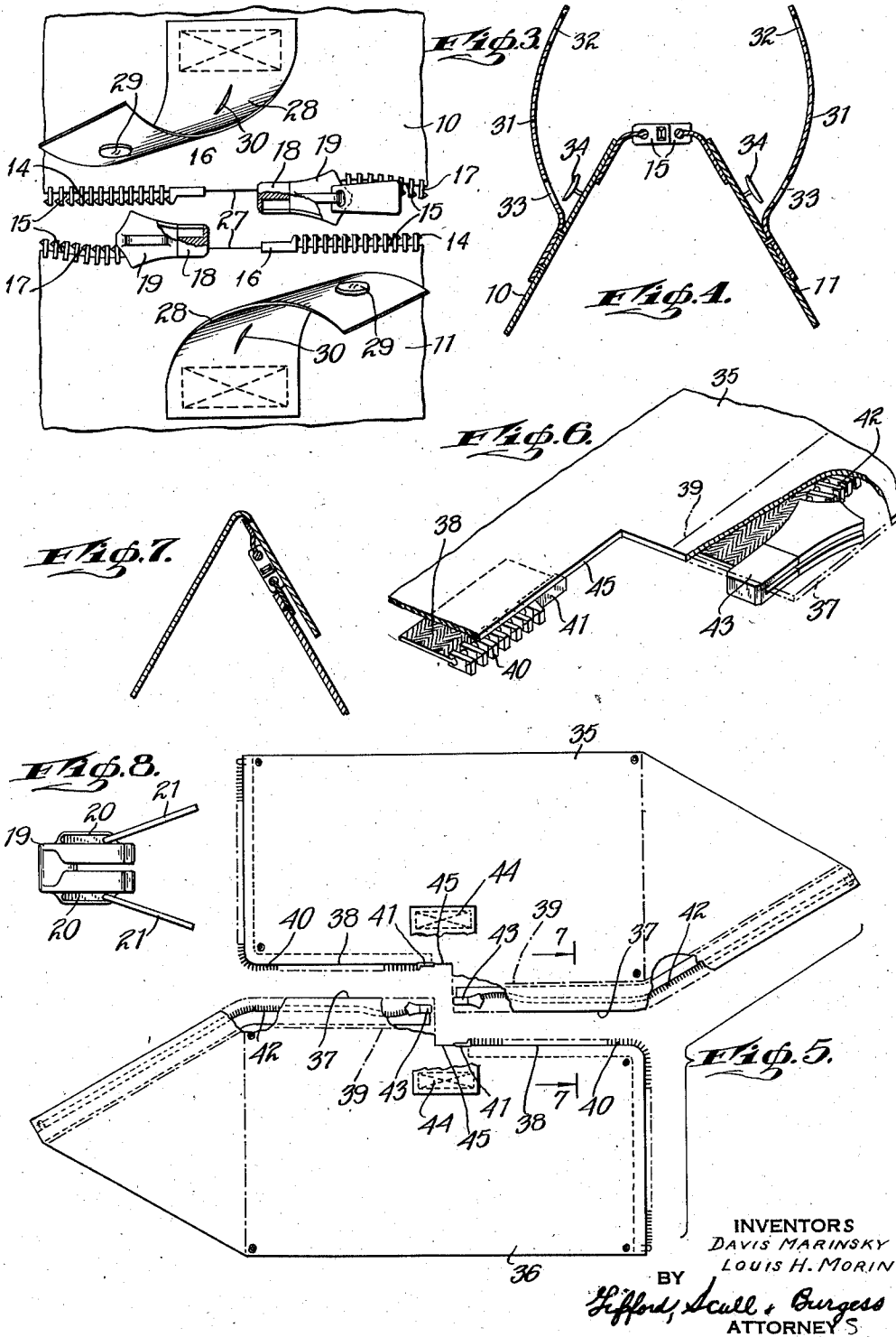
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

2,296,358

TENT

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17 Claims. (Cl. 135—1)

This invention relates to what are commonly referred to as tents or any other two similar parts to be coupled together. More particularly, the invention relates to the application of separable slide fastener stringers or chains to the separate parts to be coupled together in such manner that both parts become identical and can be united through the medium of said stringers or chains in coupling said parts to form a predetermined article or product therefrom. The novel features of the invention will be best understood from the following description and annexed drawings, in which certain embodiments of the invention are disclosed and in which the separate parts are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a perspective view of a tent made according to my invention diagrammatically illustrating the same in a set-up condition.

Fig. 2 is a plan view of the two similar parts employed for constructing the tent shown in Fig. 1 with said parts shown in detached but aligned relationship.

Fig. 3 is an enlarged detail view of the parts as seen in Fig. 1 of the drawings showing only a part of the construction and with part of the construction broken away and in section.

Fig. 4 is a transverse sectional view through the central top portion of the tent showing the sealing flaps employed in an extended position and illustrating a slight modification.

Fig. 5 is an inside face view of tent parts detached showing a modified adaptation of the invention.

Fig. 6 is an enlarged perspective view of the central portion of one of the tent parts, illustrating the arrangement of the stringers thereon with part of the construction broken away.

Fig. 7 is an enlarged cross sectional view on the line 7—7 of Fig. 5 showing the tent parts coupled together.

Fig. 8 is an elevational view of the slider member.

In the construction of what are known as army or military tents, it has been a common practice to construct such tents of two similar halves, each half to be carried by a soldier as part of his equipment. These tents have employed buttons and similar types of fasteners in such manner that any two soldiers can attach the tent halves forming part of their equipment in constructing of the two halves, a complete shelter tent for both soldiers. The manner of constructing such tent halves has been expensive and the handling thereof extremely difficult and objectionable

from the standpoint of the time devoted to assembling the tent halves, particularly in coupling said halves, and moreover, the difficulty of handling the buttons, especially with gloved hands.

It is the object of our invention to eliminate the difficulties and objectionable features of articles of the type and kind under consideration by arranging on each of the similar parts, what might be termed the box part and the pin part of a complete separable fastener so that when the two articles or tent parts are brought together, the box stringer or chain of one part may be coupled with the pin stringer or chain of the opposed part, thus providing in the resulting assembled parts, two complete and independent detachably coupled separable fasteners. It will also appear that by arranging the box and pin portions of the fastener centrally of the parts, in other words centrally of the top portion of the resulting tent, the sliders may be operated to control the opening and closure of flaps at the end portions of the tent in controlling passage into and out of the tent through either one or both ends thereof.

At this time it will also be apparent that while for illustrative purposes we have disclosed the invention as applied to tent structures, that the same may be used for coupling or uniting any two similar parts in forming of the assembled parts a resulting article of predetermined contour.

In Figs. 1 to 3 inclusive is shown one adaptation of the invention in the construction of what is commonly referred to as a shelter tent. The tent is composed of two similar parts 10 and 11, and in that each part is of identical construction, the brief description of one would apply to the other.

The parts 10 and 11 each comprise a rectangular portion 12 having at one end a triangular extension 13 which forms at opposed ends of a resulting tent to be erected therefrom, closure flaps, as will clearly appear upon a consideration of Fig. 1 of the drawings. Arranged along the other end of the parts 10 and 11 is what will be termed for descriptive purposes, the pin stringer or chain 14 of a separable fastener. This stringer or chain extends onto and along the upper edge 15 of said parts and terminates adjacent the central portion of said upper edge in the coupling pin 16. Arranged along one side edge of the flap 13 is what is termed the box stringer or chain 17 of a separable fastener which extends onto the upper edge 15 and terminates adjacent the central portion of said edge in a box coupling part 18, the latter being arranged in spaced relation to

the pin part 16. Arranged on and slidable longitudinally of the stringer or chain 17 is a slider 19 having on upper and lower walls thereof elongated loops 20 for receiving inner and outer finger pieces or pulls 21, note Fig. 8 of the drawings. This particular slider construction adapts the slider for operation externally and internally of the resulting tent, as will be apparent. At the outer end of the stringer or chain 17 is an end stop 22 which limits the closure movement of the slider in fully closing the flaps 13, and a similar stop 23 is provided on the stringer or chain 14.

The type of slide fasteners employed on the tent are what are commonly known in the art as separable fasteners, such as employed on lumber-jackets and other articles. The pin part 16 enters the box part 18 through the sliders 19 when the latter are adjacent the box parts as seen in Figs. 2 and 3, and when the pin parts are so coupled with their opposed box parts, the sliders 19 are moved along the stringers 14, 17, to couple the links thereof. In so doing, the two tent parts 10 and 11 are united to form the shelter tent of the general arrangement illustrated in Fig. 1 of the drawings.

The corner portions of the rectangular part 12 are provided with eyelets or other forms of fasteners 24 by means of which stay-cords or the like may be coupled with the tent poles 25 and with the tent stakes 26 in the manner clearly illustrated in Fig. 1 of the drawings.

As previously stated, the pin parts 16 and box parts 18 are spaced from each other as indicated at 27 to provide freely flexing portions which facilitate the coupling of each of the pins 16 with the box parts 18 of the opposed tent portions. These spaced portions of the tent parts as well as the pin and box portions thereof are covered and concealed by closure straps or flaps 28 having at their free end portions double buttons 29 exposed to inner and outer surfaces of the flaps and adapted to be passed through buttonholes 30 adjacent the mounted end portions of the flaps. When these flaps are united it will be understood that one flap will be arranged above the other and the upper flap will have the inner button 29 passed through the aperture 30 of the inner flap, whereas the outer button of the inner flap will pass outwardly through the buttonhole 30 of the upper flap.

In Fig. 4 of the drawings a slight modification of the closure or concealing flap structure is employed, and in this figure, 31 represents the flaps, each of which is provided near the free ends thereof with buttonholes 32 and near the mounting ends thereof with other buttonholes 33. Arranged on the opposed tent parts are buttons 34 which are adapted to be passed through the buttonholes 33. In coupling the flaps, one flap will be arranged inwardly and the other outwardly, and the inner flap will be first coupled with its button 34 by passing the same through the buttonhole 33, after which the buttonhole 32 of this flap is coupled with the button 34 of the opposed part. Thereafter the outer flap is arranged in position by coupling the buttonhole 32 thereof with the first mentioned button 34.

In Figs. 5, 6 and 7, a slight modification is shown in the arrangement of the stringers or chains on the similar tent parts, and in slightly modifying the structure or contour of the parts as compared with the showing in Figs. 1 to 3 inclusive so as to dispose the stringers on the tent parts at a point offset primarily with respect to the upper folded edge of said tent parts.

In Fig. 5 of the drawings, two similar tent parts are shown at 35 and 36. These parts differ from the parts 10 and 11 primarily in the extended flap portions 37 and in arranging the edges 38 offset with respect to the top fold line 39 of the two tent parts. In this construction, the pin stringer or chain 40 is equivalent to the stringer 14 and terminates at its end in the pin part 41, whereas the stringer or chain 42 is equivalent to the stringer or chain 17 and terminates at its end in the box part 43. The other details of the tent parts need no further detailed description, as the same type of sliders and pulls are employed, and straps, parts of which are shown at 44 will also be employed to cover and conceal the central top portion of the tent. The primary difference in the structure shown in Figs. 5, 6 and 7, lies in the fact that the extended flap portions 37 will lie over and cover as well as conceal the fasteners at one side of the tent; that is to say, the closures will be at one side of the top of the tent near one end thereof and at the opposed side at the other end thereof.

While separable fasteners can be provided to form substantially a seal or closure therebetween, a structure such as shown in Figs. 5, 6 and 7 will provide a greater assurance for seal while at the same time protecting the fastener links or the stringers as a whole against the action of the elements when exposed for any great length of time. It will of course be apparent that the pin and box parts 41, 43 are spaced apart as seen at 45 to facilitate the coupling of these parts as with the construction shown in the other figures.

By reason of the fact that each tent part is identical in construction, particularly insofar as the arrangement of the interengaging fastener stringers are concerned, any two of these parts may be coupled together. In using the tent structure for military purposes, it will readily appear that any two soldiers may unite their individual tent parts in erecting a complete shelter tent of the general type and kind illustrated in the accompanying drawings.

As previously stated, the invention is by no means limited to the construction of any particular type and kind of tent. In fact two similar or substantially similar parts of any type or kind may be joined by two or more complete separable fasteners having separable end couplings thereof in adjacent relation. The adjacent end portions of the two fasteners are flexibly or movably coupled in such manner as to facilitate attachment and detachment of the stringers of both fasteners to provide for complete separation of the parts into independent units.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent is:

1. An article of manufacture of the class described comprising two similar completely separable parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider movable longitudinally of the stringers in uniting and detaching said parts.

2. An article of manufacture of the class described comprising two similar parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider

movable longitudinally of the stringers in uniting and detaching said parts, the arrangement of stringers on said like parts being identical so that any two of the like parts are interchangeably attachable and detachable.

3. An article of manufacture of the class described comprising two similar parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider movable longitudinally of the stringers in uniting and detaching said parts, the arrangement of stringers on said like parts being identical so that any two of the like parts are interchangeably attachable and detachable, each part having at least two stringers, one with a pin end and the other with a box end, and the pin and box ends of the two stringers being arranged in close proximity but spaced apart on each of said parts.

4. An article of manufacture of the class described comprising two similar parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider movable longitudinally of the stringers in uniting and detaching said parts, the arrangement of stringers on said like parts being identical so that any two of the like parts are interchangeably attachable and detachable, each part having at least two stringers, one with a pin end and the other with a box end, the pin and box ends of the two stringers being arranged in close proximity but spaced apart on each of said parts, and means overlying one of the stringers on each part to form a cover concealing the complete fasteners when two parts are coupled together.

5. An article of manufacture of the class described comprising two similar parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider movable longitudinally of the stringers in uniting and detaching said parts, the arrangement of stringers on said like parts being identical so that any two of the like parts are interchangeably attachable and detachable, each part having at least two stringers, one with a pin end and the other with a box end, the pin and box ends of the two stringers being arranged in close proximity but spaced apart on each of said parts, means overlying one of the stringers on each part to form a cover concealing the complete fasteners when two parts are coupled together, and other interengaging means on said parts for concealing the pin and box ends of the stringers of both parts when coupled together.

6. An article of manufacture of the class described comprising two similar parts, means comprising separable fastener stringers arranged on each part for coupling said parts together, means uniting the stringers of two parts to form a closure slide fastener thereof, the separate stringers of which are coupled and uncoupled by a slider movable longitudinally of the stringers in uniting and detaching said parts, the arrangement of stringers on said like parts being identical so that any two of the like parts are interchange-

ably attachable and detachable, each part having at least two stringers, one with a pin end and the other with a box end, the pin and box ends of the two stringers being arranged in close proximity but spaced apart on each of said parts, and interengaging means on said parts for concealing the pin and box ends of the stringers of both parts when coupled together.

7. In an article of manufacture comprising two completely separable parts adapted to be assembled in forming the article, each part having two independent stringer halves of separable fasteners with one end portion of said halves on each part arranged in juxtaposition to each other, one stringer half of each part having a slider thereon retained against displacement therefrom, said ends of the stringer halves on each part having two different couplings, and the corresponding ends of the stringer halves of the other parts having corresponding couplings adapted to engage the opposed couplings of the first named part in coupling the stringers of said parts together and in uniting the slider with stringer halves of opposed parts.

8. In an article of manufacture comprising two completely separable parts adapted to be assembled in forming the article, each part having two independent stringer halves of separable fasteners with one end portion of said halves on each part arranged in juxtaposition to each other, one stringer half of each part having a slider thereon retained against displacement therefrom, said ends of the stringer halves on each part having two different couplings, the corresponding ends of the stringer halves of the other parts having corresponding couplings adapted to engage the opposed couplings of the first named part in coupling the stringers of said parts together and in uniting the slider with stringer halves of opposed parts, adjacent end portions of the stringer halves on each part being arranged in substantially parallel relationship, and the other end portions of the stringer halves extending angularly to the first named end portions thereof.

9. In an article of manufacture comprising two completely separable parts adapted to be assembled in forming the article, each part having two independent stringer halves of separable fasteners with one end portion of said halves on each part arranged in juxtaposition to each other, one stringer half of each part having a slider thereon retained against displacement therefrom, said ends of the stringer halves on each part having two different couplings, the corresponding ends of the stringer halves of the other parts having corresponding couplings adapted to engage the opposed couplings of the first named part in coupling the stringers of said parts together and in uniting the slider with stringer halves of opposed parts, adjacent end portions of the stringer halves on each part being arranged in substantially parallel relationship, the other end portions of the stringer halves extending angularly to the first named end portions thereof, and means on each part forming a cover concealing one stringer half only of said part whereby in coupling said parts together said means will also cover the other stringer half of the opposed part.

10. In a device of the class described comprising two parts adapted to be attached and detached by two separable slide fasteners, each fastener comprising a pair of detachably coupled stringers with a slider maintained against dis-

placement from one stringer and attachable and detachable to the other stringer in coupling and uncoupling said parts, adjacent ends of the stringers of each part being arranged in spaced but close proximity to each other, flexible means at the adjacent ends facilitating coupling of the stringers of one part with the stringers of the opposed part, and said ends of the stringers having stop means retaining the coupled stringers of opposed parts against displacement when said parts are coupled together by said stringers.

11. In a device of the class described comprising two parts adapted to be attached and detached by two separable slide fasteners, each fastener comprising a pair of detachably coupled stringers with a slider maintained against displacement from one stringer and attachable and detachable to the other stringer in coupling and uncoupling said parts, adjacent ends of the stringers of each part being arranged in spaced but close proximity to each other, flexible means at the adjacent ends facilitating coupling of the stringers of one part with the stringers of the opposed part, said ends of the stringers having stop means retaining the coupled stringers of opposed parts against displacement when said parts are coupled together by said stringers, means on said parts covering the stringers on at least one side of the parts when said parts are coupled together, and means associated with said covering means further uniting the parts at said adjacent ends of the stringers.

12. A tent of the class described comprising two similar parts, each consisting of a rectangular portion having a triangular extension at one end, fastener stringers arranged along two edges of said rectangular part and along one edge of said triangular extension for coupling the edges of both parts in forming thereof a tent structure, and means comprising a slider movable along the stringers for coupling the stringers of opposed parts in securing said parts together.

13. A tent of the class described comprising two similar parts, each consisting of a rectangular portion having a triangular extension at one end, fastener stringers arranged along two edges of said rectangular part and along one edge of said triangular extension for coupling the edges of both parts in forming thereof a tent structure, means comprising a slider movable along the stringers for coupling the stringers of opposed parts in securing said parts together, and straps on each part detachably coupled with opposed parts for joining the parts independent of said separable fasteners.

14. A tent of the character described comprising two similar parts, each having a rectangular portion and a triangular extension at one end, separable slide fasteners for joining said parts,

each part having two independent stringers, one stringer extending from the center of one edge of the rectangular portion to one end of said edge and then along an adjoining right-angular edge thereof, the other stringer extending from the center of the first named edge onto one of the edges of said triangular extension, adjacent ends of said two stringers being flexibly coupled, one end being provided with a male coupling and the other with a female coupling, a slider mounted on the stringer having the female coupling end, and said parts of the tent being secured together by engaging the male coupling end of the stringers of one part with the female coupling end of the stringer of the opposed part.

15. A tent of the character described comprising two similar parts, each having a rectangular portion and a triangular extension at one end, separable slide fasteners for joining said parts, each part having two independent stringers, one stringer extending from the center of one edge of the rectangular portion to one end of said edge and then along an adjoining right-angular edge thereof, the other stringer extending from the center of the first named edge onto one of the edges of said triangular extension, adjacent ends of said two stringers being flexibly coupled, one end being provided with a male coupling and the other with a female coupling, a slider mounted on the stringer having the female coupling end, said parts of the tent being secured together by engaging the male coupling end of the stringer of one part with the female coupling end of the stringer of the opposed part, and the interengaging straps on each part detachably concealing the adjacent coupling ends of the stringers when said parts are secured together thereby.

16. An article of manufacture comprising two unattached completely separable parts, means for coupling and uncoupling said parts, said means comprising two stringers arranged along edges of each part, one stringer on each part having a slider arranged thereon and retained against displacement therefrom, and the other stringer of each part being coupled with the first named stringer of the opposed part in uniting the pairs of stringers by said sliders in coupling said parts together.

17. An article of manufacture comprising two completely separable and unattached parts, two independent separable fasteners for independently coupling said parts, each part having one stringer of each of said fasteners, means for coupling adjacent ends of the fasteners of opposed parts, and sliders movable along each fastener in coupling and uncoupling said part.

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