# United States Patent [19]

### Losi, Jr. et al.

### [54] COLLAPSIBLE SHELTER

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- [21] Appl. No.: 773,265
- [22] Filed: Dec. 23, 1996

### **Related U.S. Application Data**

- [63] Continuation-in-part of Ser. No. 611,511, Mar. 7, 1996, Pat. No. 5,638,853.
- [51] Int. Cl.<sup>6</sup> ..... E04H 15/50
- [52] U.S. Cl. ..... 135/131; 135/145; 135/151;
- 403/109; 403/329; 403/377

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[11]

## Patent Number: 5,701,923

### [45] Date of Patent: Dec. 30, 1997

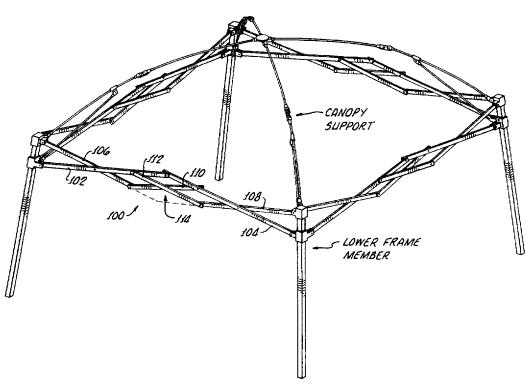
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Primary Examiner—Lanna Mai Attorney, Agent, or Firm—Oppenheimer Poms Smith

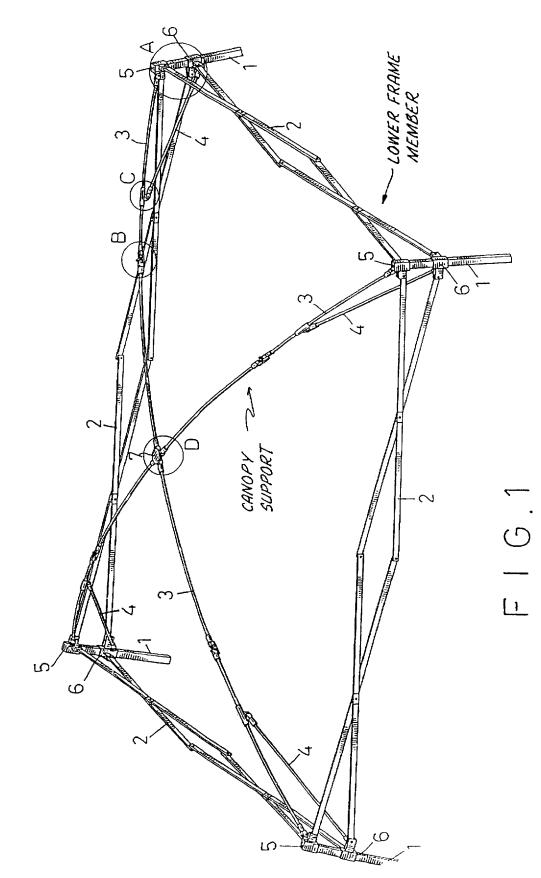
#### [57] ABSTRACT

A shelter frame having at least two poles connected by a linking assembly having first and second scissors-type linkages and a linking device. The scissors-type linkages include first structural members pivotally coupled to respective second structural members and to one another. The linking device is adapted to pivotally secure a predetermined portion of the second structural member in the first scissors-type linkage to the second scissors-type linkage at a point on the second scissors-type linkage vertically spaced from the predetermined portion of the second structural member in the first scissors-type linkage and to also pivotally secure a predetermined portion of the second structural member in the second scissors-type linkage to the first scissors-type linkage at a point on the first scissors-type linkage vertically spaced from the predetermined portion of the second structural member in the second scissors-type linkage.

### 31 Claims, 15 Drawing Sheets



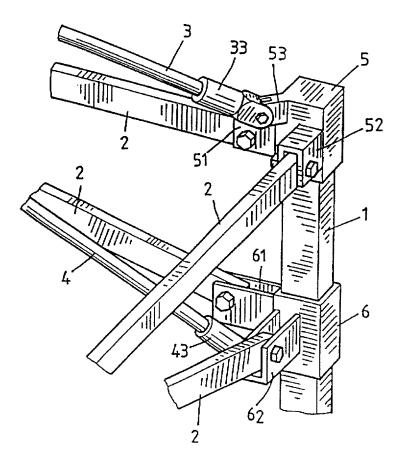
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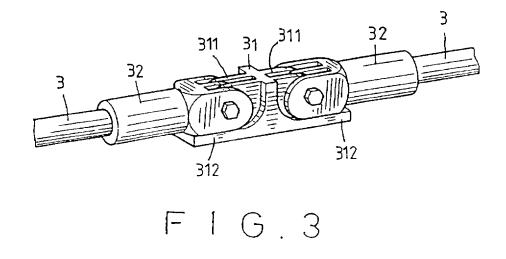
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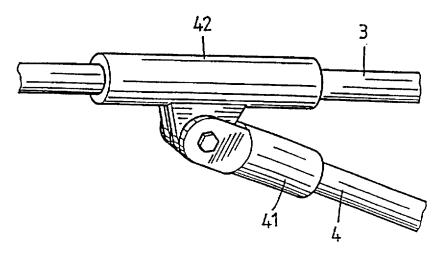
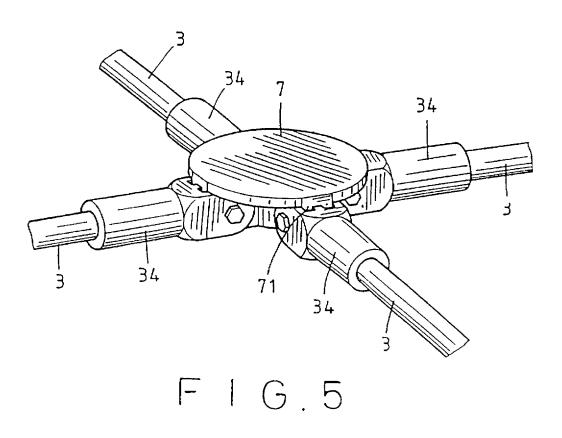


FIG.4

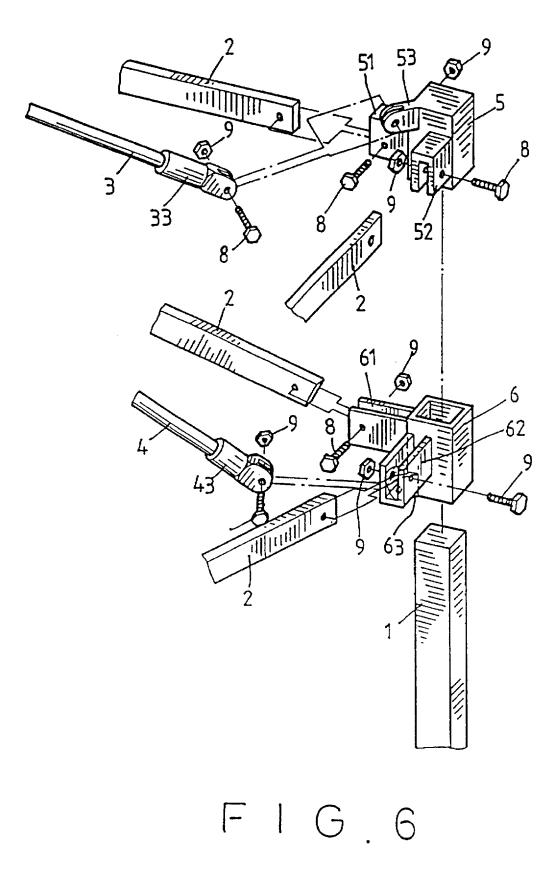


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