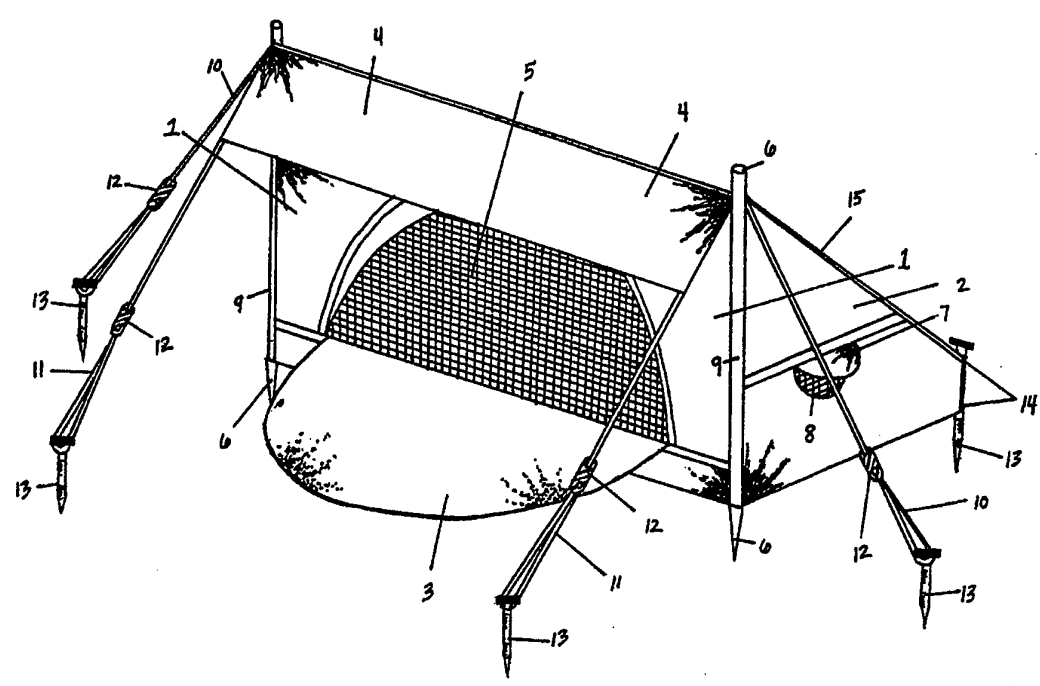




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : E04H 15/44</p>	<p>A1</p>	<p>(11) International Publication Number: WO 97/01009 (43) International Publication Date: 9 January 1997 (09.01.97)</p>
<p>(21) International Application Number: PCT/US95/07590 (22) International Filing Date: 21 June 1995 (21.06.95) (71)(72) Applicant and Inventor: GRIFFIN, Calvin, Christopher [US/US]; Suite 124, 1164 Bishop Street, Honolulu, HI 96813 (US).</p>	<p>(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, ARIPO patent (KE, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i></p>	

(54) Title: RAPID DEPLOYMENT TENT (RDT-1)



(57) Abstract

An outdoor shelter assembly (1) to provide temporary protection from natural climatic elements. The shelter assembly (1) has a built-in netting system (8) on door (3) and side windows (7), collapsible support structure (9), pegs (13) and tie-down tether ropes (11) that can be adjusted to accommodate differences in wind velocity and structural stresses.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kingdom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgystan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	KZ	Kazakhstan	SG	Singapore
CH	Switzerland	LI	Liechtenstein	SI	Slovenia
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovakia
CM	Cameroon	LR	Liberia	SN	Senegal
CN	China	LT	Lithuania	SZ	Swaziland
CS	Czechoslovakia	LU	Luxembourg	TD	Chad
CZ	Czech Republic	LV	Latvia	TG	Togo
DE	Germany	MC	Monaco	TJ	Tajikistan
DK	Denmark	MD	Republic of Moldova	TT	Trinidad and Tobago
EE	Estonia	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	UG	Uganda
FI	Finland	MN	Mongolia	US	United States of America
FR	France	MR	Mauritania	UZ	Uzbekistan
GA	Gabon			VN	Viet Nam

- 1 -

RAPID DEPLOYMENT TENT (RDT-1)
DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings and particularly to FIG 1 there is a view of an assembled RAPID DEPLOYMENT TENT (RDT-1). The shelter which is constructed of a lightweight waterproof material is supported by two (2) collapsible aluminum poles (6) which are inserted into the sheaths (9) located at the front of the RDT-1 on the left and right sides of the RDT-1. The poles are pushed into the ground to a depth of approximately six (6) inches. The poles (6) are placed far enough apart as to cause tension on the front portion of the RDT-1 sections (1) (3) (4) (5). Pegs are inserted into the ground approximately three (3) feet and horizontally adjacent to the erected poles (6), tie-down tether lines (10) should be looped over the pegs (13) and tension between poles (6) adjusted accordingly by the tension adjusters (12) located on the tether lines (10). Next, pegs (13) should be inserted through each of the two (2) straps (14) located on the rear of the RDT-1, pegs (13) should be positioned a sufficient distance from the front support poles (6) as to create enough tension in the area between the rear pegs (13) and the front support poles (6) (section 2). Next, pegs (13) should be inserted into the ground directly in front of the front support poles (6) approximately three (3) feet. Tie-down tether lines should be looped over the pegs (13) and tension on front tie-down lines (11) should be adjusted with the tension adjusters (12) to cause sufficient tension to cause the front overhang (4) to become extended. At this time all tension points should be adjusted as needed.

FIG 2. is a partial frontal and side view of the RDT-1 with the front flap (3) unzipped and down with the netting (5) fully secured with a zipper. The side ventilation flap is open and supported by a flexible rod (8) which exposes the netting.

FIG 3. shows a slanted rectangular surface (15), horizontal flat surface (16), four (4) sets of straps (14) which hold the pegs (13) in place. Also shown is a partial top view of the sheathing (9) which the front support poles are enclosed, the side tether lines (10), pegs (13) and tension adjusters (12) are also shown.

FIG 4. is a close-up view of the peg (13), tie-down lines (10 & 11) and tension adjuster (12).

FIG 5. is a view of one of four rear pegs (13) held in place by two straps (14) which anchors the rear of the RDT-1.

-2-

FIG 6. shows a side view of the RDT-1 with open ventilation flap.

FIG 7. is a side view of the ventilation window in an open position with the flap (7) held open by a flexible rod (18).

FIG 8. is a close-up view of an open ventilation window which includes the outside view of the zipper (17), supporting rod (18) and netting (8).

BRIEF DESCRIPTION OF THE DRAWINGS

In accordance with the foregoing, the invention will be described in reference to the accompanying drawings, in which:

FIG 1. is a partial perspective view of the RDT-1 with the front door flap 3/4 closed with the inside netting fully zipped-up.

FIG 2. is a partial perspective view of the RDT-1 with the front door flap down and the inside netting flap fully secured and the side ventilation window open.

FIG 3. is a rear view of the shelter with side supporting ropes extended.

FIG 4. is a close-up view of the peg and tether system.

FIG 5. shows a close-up view of one of four pegs with supporting straps to hold pegs in place.

FIG 6. is a side view of the RDT-1 with ventilation flap open.

FIG 7. is a side view of the side ventilation window flap in an open position with a flexible support rod to keep the window flap open.

FIG 8. is a close-up frontal view of the ventilation window open showing the outside view of the zipper and flap support.

-4-

CLAIM

I Claim:

in combination, an article of temporary shelter which is constructed of materials that will provide protection from natural climatic elements, comprising:

- (a) Six (6) surfaces of material of varying sizes form the main structure to include the front overhang, sufficient in size as to accommodate use by one or more human beings for temporary shelter.
- (b) Two (2) ventilation windows with netting that can be opened by a zipper. Said ventilation system also has a material flap to be opened or closed when needed and held in an open position when needed by a flexible rod. Ventilation system located on sides of shelter.
- (c) A large curved opening in the front of the shelter serves as an entrance and exit point to the shelter. A material panel, when closed protects the interior from external climatic elements and provides privacy. A double zipper enables full or partial closing. Said opening also has a double zippered panel made of netting to provide a barrier against insects.
- (d) Four (4) tether ropes (2 frontal and 2 side) to provide stability and tension to said shelter.
- (e) Two collapsible poles to provide verticle support for said shelter.
- (f) Means to secure said shelter to ground surface.

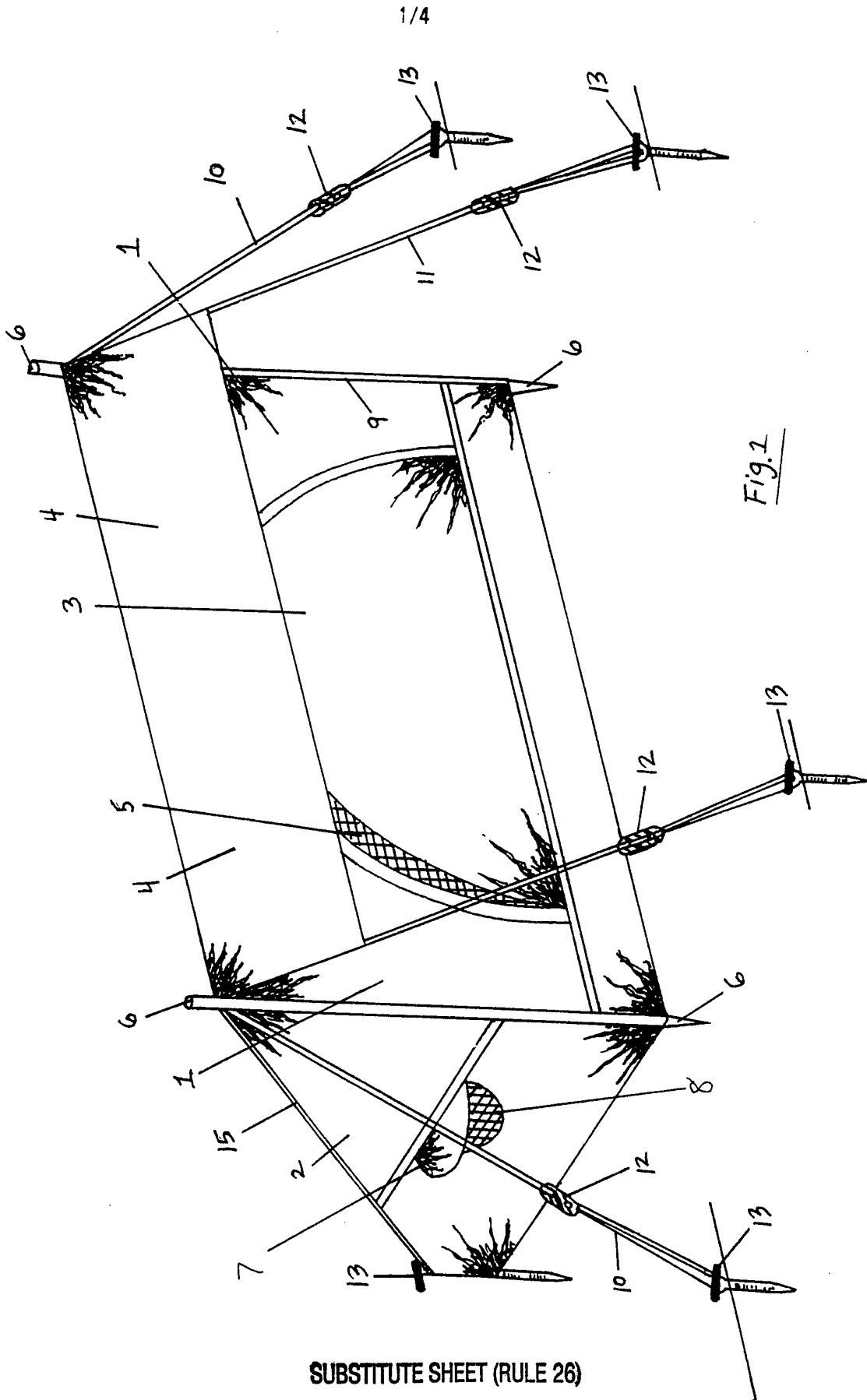
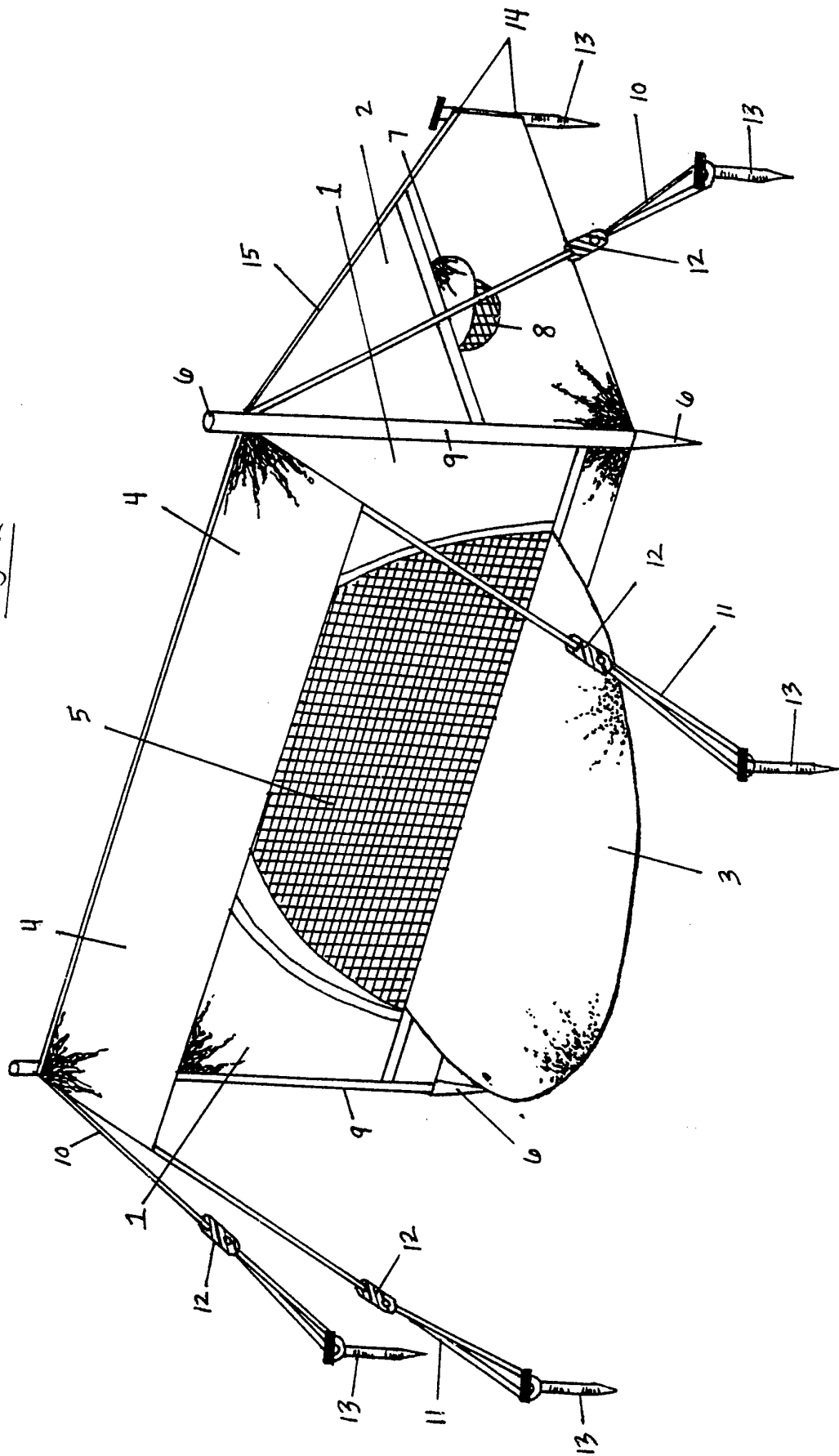
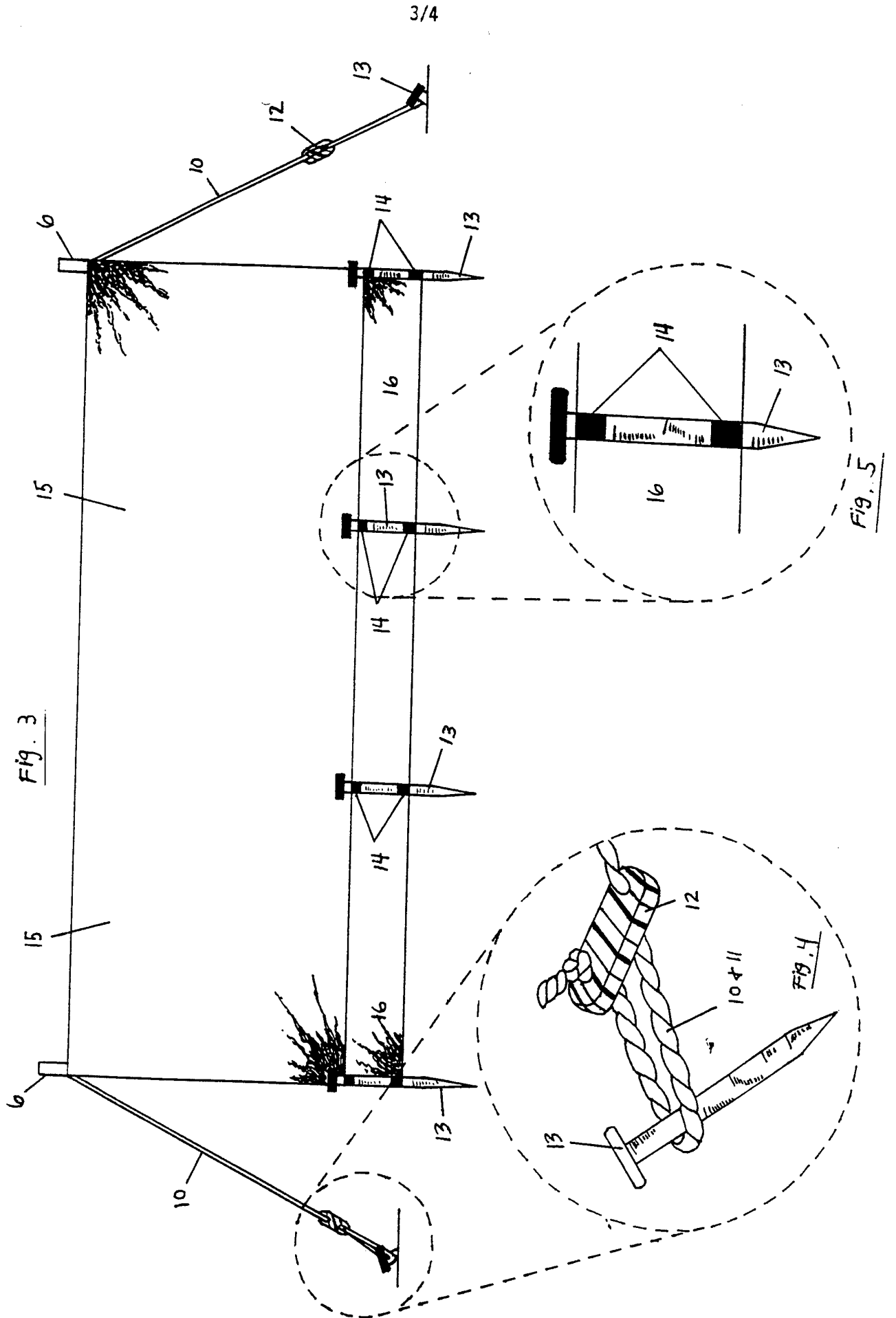


Fig. 1

Fig 2





INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/07590

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(6) : E04H 15/44
 US CL : 135/93,128
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 135/91,93,128,139,141,142,156,115,117,118

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 3,356,098 (KRUTZIKOWSKY), 05 DECEMBER 1967 Note fig. 1.	1
Y	US, A, 3,800,814 (HIBBERT) 02 APRIL 1974. Note fig. 1.	1
Y	US, A, 4,265,261 (BARKER) 05 MAY 1981. Note fig. 4.	1
A	US, A, 4,102,352 (KIRKHAM) 25 JULY 1978.	1
A	US, A, 4,165,757 (MARKS) 28 AUGUST 1979.	1

Further documents are listed in the continuation of Box C. See patent family annex.

* "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
24 AUGUST 1995

Date of mailing of the international search report
07 SEP 1995

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Authorized officer
[Signature]
LMAI

Facsimile No. (703) 305-3230
Telephone No. (703) 308-2168