A parasol or beach umbrella tether arrangement comprises a ground peg for insertion into the ground, a clip for attaching to the parasol canopy, a length of cord attached at one end to the ground peg and at the other end to the canopy clip, and a buckle for varying the tension in the cord. The ground peg may include an eye or aperture for attaching the cord, and may include an enlarged, flattened top to facilitate insertion into the ground using a mallet, a foot, or the palm of the hand (see figure 3). The canopy clip may comprise a pair of spring biased elements which grip the canopy, and an aperture for attaching the cord (see figure 5). The buckle may comprise a ladder buckle defining three apertures for receiving the cord in a manner allowing adjustment of the cord tension (see figure 4). The arrangement is intended to prevent the parasol becoming unstable or blowing away in the wind. More than one tether arrangement may be used to secure a single parasol.
more space in this area for inserting the spring during manufacture

more curved sides to allow for a better spring and to help assembly

extra rubber part helps grip the fabric

I have altered the spring stop areas and made it so that it doesn't matter which way around the spring is inserted - again to help assembly
Sunshade Anchor System ‘PARASOLID’

DESCRIPTION

A sunshade anchor system for beach and garden parasols/umbrellas to stabilise the parasol/umbrella and stop it from blowing away in slight to moderate winds.

This product was created from an idea from sitting on a beach in the Algarve in Portugal watching numerous beach parasols/umbrellas which had become unstable blowing away down the beach or into the sea with people chasing after them to retrieve them. Although the parasols/umbrellas were usually retrieved the majority of them were broken or damaged and in some rare cases had caused personnel injury too.

The product name is ‘Parasolid’ and it is unique as it can be attached to the canopy of any make of beach or garden parasol/umbrella with a bespoke designed clip and is anchored in to the ground by a bespoke designed peg and will prevent the parasol/umbrella from been blown away in slight to moderate winds.

‘Parasolid’ is made up four components a bespoke designed CLIP and PEG, ladder buckle and a length of nylon cord. An example of an assembled parasol/umbrella with ‘Parasolid’ attached is shown on Page 4, Appendix 1 and the four components are shown on Page 5, Appendix 2 of this document.

The product should be assembled as per the packaging instructions and attached to the canopy of the erected parasol/umbrella by the clip and then anchored into the ground with the peg and upwind to counter the wind forces so that the parasol/umbrella cannot become unstable and blow away. The ladder buckle is use to adjust the tension on the cord.
The present invention will be more readily understood from a consideration of the following illustrations and drawings.

Appendix 1 - Illustration of an erected Beach Parasol/Umbrella which is Secured in the ground by our invention

Appendix 2 - Illustration of all the components

Appendix 3 - Illustration of the drawing/dimensions of the ground peg

Appendix 4 - Illustration of the drawing/dimensions of the Ladder Buckle

Appendix 5 - Illustration of the drawing/dimensions of the unique clip
CLAIMS

1. Using the assembled four components, the product will secure any beach/umbrella to the ground in order to stabilise it and prevent it from being blown away in slight to moderate winds.

2. The product can be fitted to any shaped and/or size of beach parasol/umbrella although for a larger parasol/umbrella more than one product may be required.

3. Assembled as per the packaging instructions together the four components provide a unique bespoke product to any of those found to be in existence and none were found to be currently on the market.

4. The ground peg (as shown on Page 6 in Appendix 3 of this document) should be a minimum of 165mm in length and is made of PA Type 6 UV Resistant plastic and may or may not include grooves down the main shaft.

5. The ground peg (as described in Claim 4 above) incorporates a hole below the top of the peg which allows the cord to be passed through it and secure it.

6. The large flat top of the ground peg (as described in Claims 4 and 5 above) has been designed so the peg can be pushed in to the ground using the palm of the hand, foot or mallet.

7. The ladder buckle (as shown on Page 7 in Appendix 4) should be a minimum of 56mm in length and made of PE High Density plastic with three holes for the cord to pass through which allows the cord to be adjusted to change the tension as required.

8. The bespoke clip (as shown on Page 8 in Appendix 5) should be a minimum of 70mm in length and 50mm in width, made of PA Type 6 UV Resistant plastic with a metal spring and rubber grip and a hole to allow the cord to be passed through and secured.

9. The bespoke clip (as described in Claim 8 above) should be squared off on the outer edge with teeth and a rubber part for extra grip when attached to the parasol/umbrella canopy.

10. The nylon line should be a minimum of 3mm thick and a minimum of 3m in length.
Application No: GB1012530.0
Examiner: Mr Brendan Donohoe
Claims searched: All
Date of search: 12 November 2010

**Patents Act 1977: Search Report under Section 17**

**Documents considered to be relevant:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Relevant to claims</th>
<th>Identity of document and passage or figure of particular relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>All</td>
<td>US5441066 A&lt;br&gt;HARRIS - See whole document, note especially column 1 lines 9-12, column 2 lines 42-45, column 3 lines 20-51, column 4 lines 35-62, and figures 1 &amp; 4.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US5245715 A&lt;br&gt;DINKINS - See especially figures 1 &amp; 3.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>DE20102262 U1&lt;br&gt;FELSNER - See figures 1 &amp; 2, and the WPI English language abstract Accession No. 2001-345437.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US2006/236621 A1&lt;br&gt;BURNS - See especially figure 33.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US6349514 A&lt;br&gt;ADAMS - See figure 2, note especially loop 35.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>GB2295629 A&lt;br&gt;HAYWARD - See especially figures 1, 3, 5 &amp; 6.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US6009891 A&lt;br&gt;SURFACE - See especially buckle 45 in figure 4.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US2004/089332 A1&lt;br&gt;MANDEL - See the ground pegs in figure 2.</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>US2004/123886 A1&lt;br&gt;NABER - See peg 60 in figure 1.</td>
</tr>
</tbody>
</table>

**Categories:**

<table>
<thead>
<tr>
<th>X</th>
<th>Document indicating lack of novelty or inventive step</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Document indicating technological background and/or state of the art.</td>
</tr>
</tbody>
</table>
Field of Search:
Search of GB, EP, WO & US patent documents classified in the following areas of the UKC

Worldwide search of patent documents classified in the following areas of the IPC
A45B; E04H
The following online and other databases have been used in the preparation of this search report
WPI, EPDOC. Internet keyword search.

International Classification:

<table>
<thead>
<tr>
<th>Subclass</th>
<th>Subgroup</th>
<th>Valid From</th>
</tr>
</thead>
<tbody>
<tr>
<td>A45B</td>
<td>0025/00</td>
<td>01/01/2006</td>
</tr>
<tr>
<td>A45B</td>
<td>0025/22</td>
<td>01/01/2006</td>
</tr>
</tbody>
</table>

\[X\]

\[X\]

\[X\]

\[X\]

\[X\]