MINIATURE HIGH POWER FLASHLIGHT

Abstract: A flashlight has a housing (12) having a battery containing portion (14), and a light source containing portion (16) integral with the battery containing portion. The battery containing portion is substantially triangular in transverse cross-section with rounded corners (25) which form three battery containing chambers. Three spiral springs (40, 42 and 44) are seated on the closed end of the battery containing portion with each spring in alignment with a battery chamber. Two of the springs (40 and 42) are electrically connected together. The third spring (44) has an electrode wire (48) extending along one side of the battery containing portion to the light source containing portion (16). A light generating means, (68) such as a LED, is mounted in the light source containing portion (16) and is adapted to move the light generating means (68) into and out of an electrical contact with the batteries (84) to turn the flashlight on and off.
A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) :F21Y 21/00; F21L 4/00, 7/00
US CL :562/202, 203, 208, 596, 800
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. : 562/202, 203, 208, 596, 800

Documented searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>CA 645021 A (DRAUDT et al) 17 July 1962 (17.07.1962), column 4, lines 8-21, column 8, lines 7-17.</td>
<td>1,2,13-15</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,911,497 A (MELE) 15 June 1999 (15.06.1999), Figure 4, column 2, lines 6-30.</td>
<td>1,2,13-15</td>
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<td>Y</td>
<td>US 5,510,963 A (BAMBER et al.) 23 April 1996 (23.04.1996), Figure 6, column 2, lines 39-50.</td>
<td>13,14</td>
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<td>Y</td>
<td>US 5,904,414 A (MONTELEONE et al.) 18 May 1999 (18.05.1999), Figure 9, column 7, lines 30-32.</td>
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<td>A</td>
<td>US 6,168,288 B1 (ST. CLAIRE) 02 January 2001 (02.01.2001), see entire document.</td>
<td>1-15</td>
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</table>

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

Date of the actual completion of the international search: 25 May 2002

Date of mailing of the international search report: 8 November 2002

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