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(74) Agents: LITMAN, Richard, C. et al.; LITMAN LAW OFFICES, LTD., P.O. Box 15035, Crystal City Station, Arlington, VA 22215 (US).


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(54) Title: SELF-LOCKING LINEAR ADJUSTMENT MECHANISM

(57) Abstract: A self-locking linear adjustment mechanism (100) may be configured in the form of a rod assembly or a cartridge assembly. The self-locking linear adjustment mechanism (100) in the form of a cartridge assembly includes a self-locking linear adjustment mechanism including a locking tumbler (102), an adjustment vernier (104), two end adapters (106), two roll pins (108), two precision balls (103), two locking skirts (110), two springs (112), two locking splines (114), two index pins (116), and two guide shafts (118), wherein the self-locking linear adjustment mechanism has a dual function self-locking feature.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F16H 25/20
US CL : 074/089390

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. : 074/089390 074/489.23,89.35;403/322.2,322.3,325,109.3,109.5,347.1,374.2;411/348,389,321,322

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

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

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>X</td>
<td>US 4,813,810 A (Suzuki) 21 March 1989, see Fig. 57.</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search

07 January 2005 (07.01.2005)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

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Authorized officer
BRIAN JOHNSON
Telephone No. (571) 272-3595

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