Title: APPARATUS AND METHOD FOR TERMINATION OF A WIRE ROPE USED FOR MINING EQUIPMENT

Abstract: The invention provides a termination for a wire rope made by a process of inserting one end of a wire rope into a mold and placing a crucible with a crucible opening over the mold. The mold opening is in fluid communication with the crucible opening. Exothermic metallic material is added to the crucible. The exothermic metallic material is ignited forming a molten material. The molten material flows into the mold around the wire rope forming a termination capable of sustaining a higher break force than the wire rope. The invention also provides a termination for a wire rope made by a process with an adhesive. The termination provides a socket for connecting wire rope to various types of equipment. The socket can include one or more frustrational wedges for securely holding the wire rope and the termination in the connector. The socket body can also include a protection sled and various ways to connect to the equipment.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC:   E02F 3/60( 2006.01)

USPC:  37/399
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.: 37/399, 397, 398, 396, 395, 455; 403/374.1, 317, 281; 294/68.27

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)

EAST

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 5,367,798 A (HUGHES) 29 November 1994 (29.11.1994), columns 3-5, figure 1.</td>
<td>1-3, 6-11, 13-16, 18-23</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,234,709 A (SORKIN) 22 May 2001 (22.05.2001), figures 1-3.</td>
<td>4, 5, 12, 17</td>
</tr>
</tbody>
</table>

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

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Date of the actual completion of the international search
03 February 2007 (03.02.2007)

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28 FEB 2007

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