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(54) Title: CHILDREN'S RIDE-ON VEHICLE CHARGING ASSEMBLIES WITH BACK FEED PROTECTION

(57) Abstract: Battery charging assemblies for children's ride-on vehicles, and children's ride-on vehicles that include the same. The charging assemblies may include a power adapter that is adapted to be electrically connected to a power source, a charger cord, and a charging connector that is adapted to electrically interconnect with the rechargeable battery of the ride-on vehicle. The battery charging assemblies further include at least one protective element to prevent or significantly reduce backflow current from the battery into the battery charging assembly. The protective element may be located in the charging probe or at any point along the charger cord of the battery charging assembly. The protective element may include any suitable current-limiting or current-interrupting device. Examples of such current limiting devices include, without limitation, a fuse, a circuit breaker, an anti-backflow diode, and a resettable fuse such as a positive temperature coefficient resistor (PTC resistor).
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
## INTERNATIONAL SEARCH REPORT

### A. CLASSIFICATION OF SUBJECT MATTER

- **IPC(B)** - H02J 7/00 (2007.01)
- **USPC** - 320/134

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)
  - **IPC(B)** - H02J 7/00 (2007.01)
  - **USPC** - 320/134, 149, 155

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)
  - MicroPatent, IP.com, DialogPro

### 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>A</td>
<td>US 5,886,860 A (CHEN et al) 23 March 1999 (23.03.1999) entire document</td>
<td>1-26</td>
</tr>
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</table>

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- Date of the actual completion of the international search: 18 April 2007
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