

Title (en)  
Suspension system for inline skates

Title (de)  
Blattfederung für Sportgerät mit Laufrollen

Title (fr)  
Suspension par ressort à lame pour un patin en ligne

Publication  
**EP 1222948 B1 20060315 (EN)**

Application  
**EP 01300143 A 20010108**

Priority  
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Abstract (en)  
[origin: EP1222948A1] A suspension system for use with inline skates. The suspension system employs a mounting bracket (12) that supports a flex beam (14L) on a left side and a flex beam (14R) on a right side of the mounting bracket. Downwardly extending tabs (20) formed at the ends of the flex beams are each connected to an axle (30) on which one of a plurality of wheels (16a-16d) is supported. In a preferred embodiment, four inline wheels are connected to the flex beams, such that the first and third wheels are attached to one flex beam and the second and fourth wheels are attached to the other flex beam. This configuration allows the end of each flex beam and the wheel mounted thereon to deflect vertically as well as laterally and about a longitudinal axis of the flex beam. An independent suspension system is thus provided for each wheel. The ends of the flex beams are tapered (in thickness) to control the resiliency of the flex beams. <IMAGE>

IPC 8 full level  
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