

Title (en)

Apparatus for programmed release in ski bindings.

Title (de)

Vorrichtung zur programmierten Auslösung von Skibindungen.

Title (fr)

Appareil pour le déclenchement programmé des fixations de ski.

Publication

EP 0042762 A2 19811230 (EN)

Application

EP 81302824 A 19810623

Priority

- US 16241380 A 19800624
- US 27092581 A 19810605

Abstract (en)

A method and apparatus for achieving programmed release ski bindings is described including formulation of biomechanical models and associated equations for determining release criteria in order to minimize selected types of lower extremity ski injuries. Analog and digital (122 min) control circuits are also disclosed for computing the release variables from the biomechanical model equations and comparing the variable values to the release criteria in order to precisely generate a release initiating signal. Loads measured in the ski binding drive the biomechanical model equations. Three embodiments of ski binding assemblies are also disclosed including releasable binding means (310) for rigidly securing the ski boot (316) to the ski (314) with a release actuating element (318, 342, 334) for releasing the ski from the binding upon occurrence of a release condition as determined by the associated control circuit (122 min).

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