

Title (en)  
Heel binding.

Title (de)  
Fersenniederhalter.

Title (fr)  
Talonnière pour fixation de ski.

Publication  
**EP 0094675 A1 19831123 (DE)**

Application  
**EP 83104848 A 19830517**

Priority  
AT 198282 A 19820519

Abstract (en)

1. A heel clamp comprising a base plate (1) adapted respectively to be secured to the ski or to be guided in a guide rail in the longitudinal direction of the ski, and a bearing bracket (2) of substantially U-shaped cross-sectional configuration disposed on said base plate, a unit (9, 9', 9'') consisting of a sole clamp (7) and a step ledge (8) being mounted in the upper portion of said bearing bracket for pivotal movement about axle stubs (3), a control lever (11, 11') operatively disposed between a pressure member (6) biased by a lock spring (5) and said unit (9, 9', 9'') being disposed in a preferably lower portion of said bearing bracket spaced from said axle stubs (3), an intermediate lever (13, 13', 13'') associated with said control lever being mounted in said unit (9, 9', 9'') for pivotal movement about an axis (14), said intermediate lever (13, 13', 13'') having a control curve formed by two branches (13c, 13d) converging into an intersection line (13e), said intersection line (13e) determining the limit of the resiliency range of said heel clamp, characterized in that said intermediate lever (13, 13', 13'') is biased in the direction towards said control lever (11, 11') by a spring (15, 15'), preferably a compression spring, considerably weaker than said lock spring (5) and accommodated in a recess (12, 12', 12'') of said unit (9, 9', 9''), and in that during a closing actuation of said heel clamp subsequent to a preceding involuntary release operation said intermediate lever (13, 13', 13'') is adapted to be pivoted against the force of said spring (15, 15') to a position in which said control lever (11, 11') is brought to its locked position against said intermediate lever (13, 13', 13'') practically without actuation of said lock spring (5), and wherein the tangential plane (T1) of said upper branch (13c) of said control curve (13c, 13d) passing through the point of contact (A) between said intermediate lever (13, 13', 13'') and said control lever (11, 11') and a tangential plane (T2) of a circular cylinder about the pivot axis (14) of said intermediate lever (13, 13', 13'') passing through said contact point (A), said tangential plane (T2) passing through said point of contact (A), enclose therebetween an angle ( $\alpha$ ) which is smaller than the friction angle ( $\rho$ ) between the material of the two levers (11, 11'; 13, 13', 13'').

Abstract (de)

Die Erfindung betrifft einen Fersenniederhalter mit einem an einer Grundplatte (1) befestigten Lagerbock (2) verschwenkbaren Sohlenniederhalter (7), welcher um Achsstummeln (3) schwenkbar gelagert ist. Der Sohlenniederhalter (7) ist von einer Feder (5) unter Zwischenschaltung eines Steuerhebels (11) und eines Zwischenhebels (13), welcher auf dem Körper des Sohlenniederhalters (7) schwenkbar gelagert ist, beaufschlagt. Ziel der Erfindung ist eine erleichtertes Einsteigen mit dem Skischuh in den Fersenniederhalter zu gewährleisten. Erfindungsgemäß steht der Zwischenhebel (13) unter dem Einfluß einer gegenüber der Rastfeder (5) wesentlich schwächeren Feder (15), welche den Zwischenhebel (13) in Richtung des Steuerhebels (11) drückt, wobei die den Auslösevorgang bestimmende Steuerkurve (13c) am Zwischenhebel (13) vorgesehen ist. Dabei sollen zwei Tangentialebenen (t1, t2) einen Winkel einschließen, der kleiner als der Reibungswinkel zwischen den Materialien der beiden Hebel ist. Besonders günstig ist, wenn der Sohlenniederhalter (7') und der Zwischenhebel (13') lamellenartig ineinandergreifend ausgebildet sind. Beim unwillkürlichen Auslösen kommt daher die volle Kraft der Rastfeder zur Geltung; beim Einsteigen wird der Widerstand durch Wegschwenken des Zwischenhebels (13, 13') vermindert.

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**A63C 9/084**

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**A63C 9/084** (2012.01)

CPC (source: EP)  
**A63C 9/0842** (2013.01); **A63C 9/0846** (2013.01)

Citation (search report)

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**EP 0157298 A2 19851009; EP 0157298 A3 19870318; EP 0157298 B1 19890308; AT 374697 B 19840525; AT A18983 A 19840715; AT A198282 A 19831015; DE 3362519 D1 19860417; DE 3379319 D1 19890413; EP 0094675 A1 19831123; EP 0094675 B1 19860312**

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