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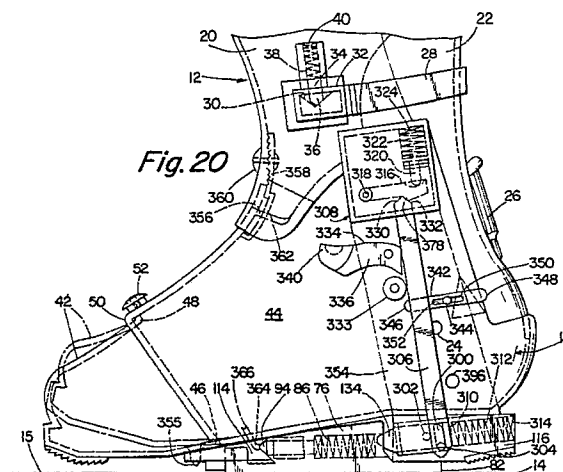
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(54) **Ski boot and ski boot-binding.**

(57) A ski boot (12) and a ski boot incorporating a releasable ski binding (14) which attaches the boot to a ski (15). The boot-binding includes a first connecting portion (76) secured to the ski, a second connecting portion (114, 116) secured to the boot, a plunger (88, 134) combination for releasably coupling the first and second connecting portions so that the boot may release in any direction, and an actuation device engaging the plunger combination for maintaining coupling of the first and second coupling portions. The actuation device has a pivotal lever arm mounted for withdrawing one of the plungers and an arm stay secured to the ski boot for releasably retaining the pivotal lever arm (306). The ski boot includes a living hinge (46) in the sole (16) to facilitate walking in the boot, and the hinge may be locked to inhibit the hinging function. The boot extends well above the ankle and is stiffened on the inside or outside to securely mount the arm stay. For retaining a foot in place, the boot includes a foot-enveloping foot positioning device (400) which surrounds the arch and instep of a foot inside the ski

boot when the boot is worn. The foot positioning device (400) is adjustable to both fit the foot and also hold the foot at the heel of the boot.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 31 1849

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	DE-A-2 426 062 (GERTSCH AG) * Claim 1; figures 1-4 * ---	1-3,7	A 63 C 9/086 A 43 B 5/04 A 43 C 11/00
A	FR-A-2 407 681 (SOCIETE TRAPPEUR) * Claim 1; figures 1-12 * ---	1,9	
A	FR-A-2 091 429 (MARKER) * Figures 11-18 * ---	1	
A	DE-A-3 432 065 (KIRSCH) ---		
A	EP-A-0 213 612 (NORDICA) ---		
Y	FR-A-2 540 359 (MORELL, PARIS, PETRINI) * Claims 1-26; figures 1-13 * ---	20,25,26	
Y	DE-A-1 557 542 (WEINMANN) * The whole document * ---	2,25,26	
A	DE-A-2 807 348 (DACHSTEIN) * Claim 1; figures 1-4 * ---	20,27	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	DE-A-2 446 066 (LEDERER) * The whole document * ---	21-24	A 63 C A 43 B A 43 C
A	US-A-3 953 930 (RAMER) * The whole document * ---	21-24	
A	EP-A-0 133 237 (NORDICA) * Abstract; figures 1-5 * ---	20	
X	EP-A-0 183 182 (CABER ITALIA) * Abstract; figures 3-6 * ---	32,33,35	
X	EP-A-0 169 190 (DACHSTEIN) * Abstract; figures 1-3 * ---	32,33,35	
		-/-	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-08-1991	Examiner SUENDERMAN R.O.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,
namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,
namely:

1. Claims 1-19: Ski boot and binding.
2. Claims 20-27: Ski boot with forward and rear cuffs and means for controlling leg lean by a skis.
3. Claims 32,33,35: Ski boot with foot positioning device.

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,
namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
namely claims:



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
8	X DE-A-3 909 069 (BENOIT) * The whole document * -----	32, 33, 35	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-08-1991	Examiner SUENDERMANN R.O.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			