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(54) **Device for processing or finishing the blades of a ski or snowboard and ski or snowboard**

(57) A device (10) for processing or finishing the blades (14) of a ski (12) comprises a portion (10b) adapted for finishing a sliding surface (14a) of the blade, said portion comprising a front grinding wheel (60) of the cup type, defining an abrasive ring (60a) and adapted for being placed in rotation around an axis (d-d) perpendicular

to the abrasive ring itself and adapted for being arranged transversally to the sliding surface (14a) of the blade, said abrasive ring (60a) exhibiting a thickness (s) in direction radial to the axis (d-d) of rotation of the front grinding wheel (60) smaller than the width (1) of the sliding surface (14a) of the blade.

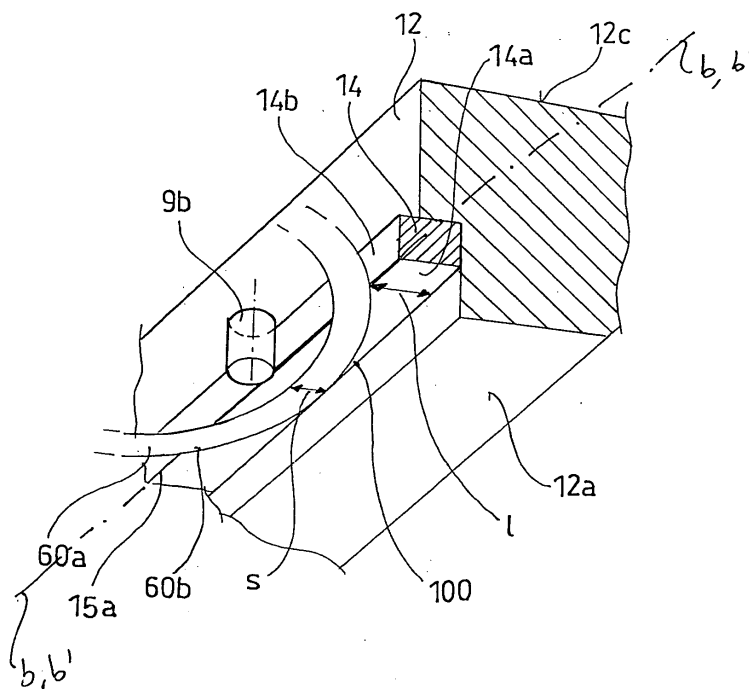


FIG. 20

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	FR 775 368 A (STÄHLI) 27 December 1934 (1934-12-27) * figures 1-7 *	1	A63C5/04 A63C11/06
X	US 6 062 585 A (HESS ET AL) 16 May 2000 (2000-05-16) * the whole document *	1	
X	US 4 722 543 A (BRUGGER ET AL) 2 February 1988 (1988-02-02) * the whole document *	1	
X	DE 101 07 905 A1 (KRAMPFL, KURT) 19 September 2002 (2002-09-19) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			A63C
<p>The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
The Hague		31 May 2005	Verelst, P
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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CLAIMS INCURRING FEES

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

- ☒ Only part of the claims 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 claim(s):
- ☐ 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.

LACK OF UNITY OF INVENTION

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

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ 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 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 invention first mentioned in the claims, namely claims:

1



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

1. claim: 1

Sliding surface of the blade is lowered relative to the
sliding surface of te ski

2. claims: 2-27

Device for processing or finishing any blades of a not
specified ski ;the technical features of the independent
claim relating to the ski and the independent claims 2,24,26
and 27 relating to a device ,machine for processing blades
do not contain a single inventive concept that links the
indepent claims.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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31-05-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 775368	A	27-12-1934	CH 170121 A DE 628871 C	30-06-1934 17-04-1936
US 6062585	A	16-05-2000	AT 172647 T DE 9306333 U1 WO 9425124 A1 EP 0696221 A1 JP 9500037 T	15-11-1998 02-09-1993 10-11-1994 14-02-1996 07-01-1997
US 4722543	A	02-02-1988	AT 388507 B AT 200484 A CA 1265828 A1 DE 3570840 D1 EP 0166717 A1	25-07-1989 15-08-1986 13-02-1990 13-07-1989 02-01-1986
DE 10107905	A1	19-09-2002	NONE	

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82