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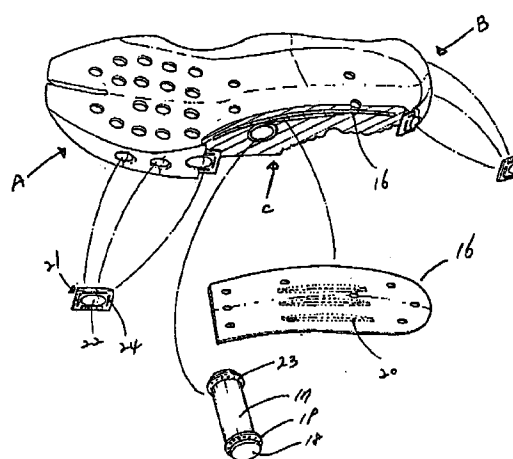
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(54) **Shoe sole without heel and with cushion**

(57) A shoe sole having no heel and with the cushion improved is disclosed, which gives an athletic effect same as a mountain climbing during a usual walking, and the waist is made straightened, thereby correcting the posture of a walker.

The heelless shoe sole includes a midsole, and the midsole includes an elastic tube (17) and a filling member (18) with projecting flanges (19) formed thereon. The projecting flanges have a plurality of holes (23) respectively. Further it includes a gently curved reinforcing plate (16) extending from the toe portion to the heel portion. Or the heelless shoe sole includes a midsole, and the midsole includes a recess having a certain depth and formed on a toe portion of the midsole. The midsole further includes a lateral through hole formed in a middle portion of the midsole and expanding from an outer side of the midsole toward an inner side of the midsole so as to be fit to the arcuate shape of a human foot sole. The midsole still further includes a V shaped groove formed in an arcuate portion of a heelless portion, and a tread face having a plurality of circular slots at a rear thereof.

FIG. 1



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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

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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 (Int.Cl.6)
A	DE 94 13 496 U (PARK YOUNGSOUL ;CHO MYUNGSOON (KR)) 13 October 1994 * the whole document * ---	1,3,9,10	A43B13/14 A43B13/18
A	FR 2 448 308 A (ADIDAS SPORTSCHUHE) 5 September 1980 * the whole document * ---	1,3,9,10	
A	US 5 138 776 A (LEVIN SHALOM) 18 August 1992 * column 4, line 12 - line 16; figures * ---	1,3,9,10	
A	EP 0 695 514 A (PARK YOUNGSOUL) 7 February 1996 * the whole document * ---	2,3,9	
A	DE 40 18 518 A (ADIDAS AG) 17 January 1991 * abstract; figures * ---	2,5	
A	EP 0 600 145 A (KEIHAN TSUSHO CO LTD) 8 June 1994 * page 14, line 18 - line 22; figure 39 * -----	2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A43B
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims. Claims searched completely : 1-10 Claims searched incompletely : Claims not searched : 11,12 Reason for the limitation of the search: Claim 11 defines a heelless shoe with a heel (inconsistent) The subject matter of claim 12 is obscure			
Place of search		Date of completion of the search	Examiner
THE HAGUE		18 September 1998	Scholvinck, T
CATEGORY OF CITED DOCUMENTS		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	
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			

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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.
- ☐ 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:



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**LACK OF UNITY OF INVENTION
SHEET B**

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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. Claims: 1,3,9,10 (claims 3,9,
10 in so far as they refer to claim 1)

Claims 1,3,9,10 define a heelless shoe with a midsole, incorporating an elastic tube, a filling member and a reinforcing plate

2. Claims: 2-10 (claims 3,9,
10 in so far as they refer to claim 2)

Claims 2-10 define a heelless shoe with a midsole having a recess, a lateral through hole, an inclined portion, a V-shaped groove, a treading face and a circular slot.