

Search history

Search TAC=(SAFE AND (SHOES OR BOOTS)) (Results 2114)
1:
Search TAC=(BOOT, ESPECIALLY A SKI OR SNOWBOARD BOOT) (Results 374)
2:
Search TAC=(MINE-SWEEPING AND EXPLOSION-PROOF AND BOOTS) (Results 1)
3:
Search TAC=(BOOTS AND MINE) (Results 83)
4:
Search TAC=(SAFE SHOES FOR A MINE FOR SECURING BATTLE SHOES ONTO THE SAFE SHOES) (Results 1)
5:
Search TAC=(ANTI-THUNDER AND ANTI-EXPLOSION AND BOOT) (Results 1)
6:
Search TAC=(MINE LAST SPECIAL BOOTS) (Results 1)
7:
Search TAC=(BLAST AND PROTECTIVE AND BOOTS) (Results 8)
8:
Search TAC=(MULTIFUNCTIONAL ANTI-THUNDER AND ANTI-EXPLOSION AND BOOT AND MAKING) (Results 1)
9:
Search TAC=(TECHNOLOGY THEREOF) (Results 6158)
10:
Search TAC=(BLAST PROTECTIVE BOOTS WITH OPTIMIZED DESIGN COMPONENTS) (Results 1)
11:
Search TAC=(BOTAS ANTIMINAS) (Results 4)
12:
Search TAC=(ANTI-MINE BOOTS) (Results 3)
13:
Search TAC=(ANTI LAND-MINE AND BOOTS) (Results 1)
14:
Search TAC=(MINE BOOT) (Results 11)
15:
Search (BOOTS AND IPC=(A43B13/12)) (Results 219)
16:
Search 16 AND 10 (Results 1)
17:
Search 16 AND 1 (Results 1)
18:
Search 16 AND 2 (Results 1)
19:
Search pn=(US20090090024 OR WO2001032042 OR WO2010/020830 OR WO03037125 OR WO2010128349 OR CO6990147 OR CO6990146 OR KR100484227 OR US8047117 OR KR101478005 OR WO03101234 OR WO2010130231 OR CZ12005 OR CN1265464 OR KR200344539 OR KR200213924 OR CO5650075 OR CN204599484 OR WO10020830 OR CO5650075 OR WO03037125 OR CN202536259 OR KR20020088907 OR IT8620747 OR WO2010130231 OR CN104939423) (Results 21)
Search fn=(23130384 or 16158086 or 15318536 or 28527862) (Results 4)
21:
Search 20 OR 21 (Results 23)
22:

1) Family number: 3339576 (US4769930A)

© PatBase

Title: Alpine ski boot

Abstract: Source: US4769930A A ski boot including an upper journaled on rigid shell base around a journal axis so that the upper can undergo forward flexion around the journal axis in response to forward flexion of the leg of the skier. Also provided is a flexion control device which elastically opposes forward flexion of the upper. The flexion control device is an elastic element positioned between the shell base and the upper and extends transversely to the longitudinally axis of the boot. One end of the elastic element is attached to the shell base at a linkage point spaced from the journal axis. Another portion of the elastic element is attached to the lower edge of the cuff at a support point by a retention element. These attachments are such that during forward flexion: the distance from the journal axis to the support is invariant, the distance from the journal axis to the linkage point is invariant, and the distance from the support point to the linkage point varies.

Classifications:

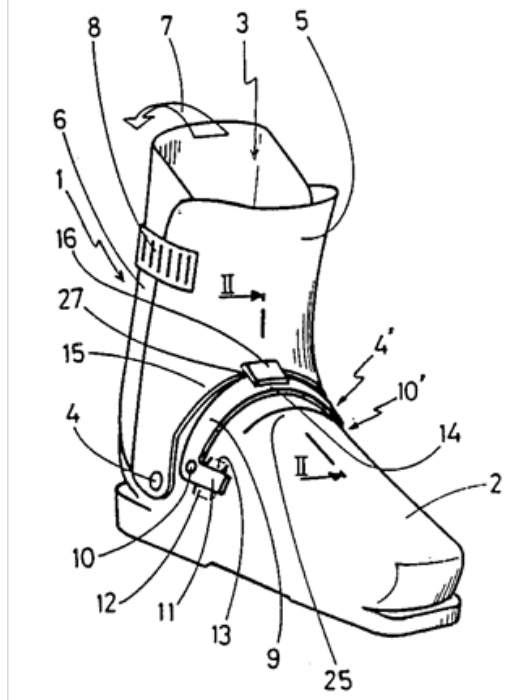
International (IPC 8-9): A43B5/04 (Advanced/Invention)

International (IPC 1-7): A43B5/04

CPC: A43B5/0458 A43B5/048

European: A43B5/04E14F2 A43B5/04E34

US: 36/118.3 36/118.6 36/118.9 36/120

**Family:**

Publication number	Publication date	Application number	Application date
CH670190 A	19890531	CH19860002216	19860602
DE3619043 A1	19861218	DE19863619043	19860606
FR2583272 A1	19861219	FR19850009180	19850612
FR2583272 B1	19870731	FR19850009180	19850612
IT1189541 A	19880204	IT19860020747	19860610
IT8620747 A0	19860610	IT19860020747	19860610
JP62011402 A2	19870120	JP19860135071	19860612
US4769930 A	19880913	US19860870374	19860604
US4901455 A	19900220	US19880184781	19880422

Priority:

FR19850009180 19850612 US19860870374 19860604

Probable Assignee: SALOMON SA**Assignee(s):** (std): SALOMON SA**Assignee(s):** SALOMON S A**Inventor(s):** (std): JIYAN RUI DE MARUSHI ; JIYOZEFU MORERU ; JOSEPH MORELL ; KOPP NORBERT ; MARCHI JEAN LOUIS DE ; MORELL JOSEPH ; DE MARCHI JEAN LOUIS ; NORUBEERU KOTSUPU**Inventor(s):** JEAN LOUIS DE MARCHI ; NORBERT KOPP ; JOSEPH MORELL JEAN LOUIS DE MARCHI ET NORBERT KOPP**Legal status (INPADOC)**

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CH670190 A	19890531	LSGT	+	granted / extensions (spc, cpc, pte)	
CH670190 A	19910228	LSLE	-PL	PATENT CEASED	
DE3619043 A1	19861218	LSPB	+	published / reissued	
DE3619043 A1	19930708	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE3619043 A1	19940609	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
FR2583272 A1	19861219	LSPB	+	published / reissued	
FR2583272 A1	19980430	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2583272 B1	19870731	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1189541 A	19880204	LSGT	+	granted / extensions	

JP62011402 A2	19870120	LSPB	+	(spc, cpc, pte) published / reissued	
US4769930 A	19880913	LSGT	+	granted / extensions (spc, cpc, pte)	
US4769930 A	19860805	LSAS	AS	ASSIGNMENT	OWNER NAME : SALOMON S.A., SIEGE SOCIAL METZ-TESSY BP 454 74011 DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:MORELL, JOSEPH; DE MARCHI, JEAN-LOUIS; KOPP, NORBERT; REEL/FRAME:004586/0905 EFFECTIVE DATE : 19860702
US4769930 A	19860805	LSAS	AS	ASSIGNMENT	OWNER NAME : SALOMON S.A.,FRANCE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MORELL, JOSEPH; DE MARCHI, JEAN-LOUIS; KOPP, NORBERT; REEL/FRAME:004586/0905 EFFECTIVE DATE : 19860702
US4769930 A	19910101	LSRE	CC	CERTIFICATE OF CORRECTION	
US4769930 A	19920110	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4769930 A	19950928	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4769930 A	20000910	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4769930 A	20001114	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20000913
US4901455 A	19900220	LSGT	+	granted / extensions (spc, cpc, pte)	
US4901455 A	19910924	LSRE	CC	CERTIFICATE OF CORRECTION	
US4901455 A	19930715	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4901455 A	19980222	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4901455 A	19980505	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19980225

2) Family number: 12868366 (CN1265464A)

© PatBase

Title: Mine-sweeping explosion-proof boots

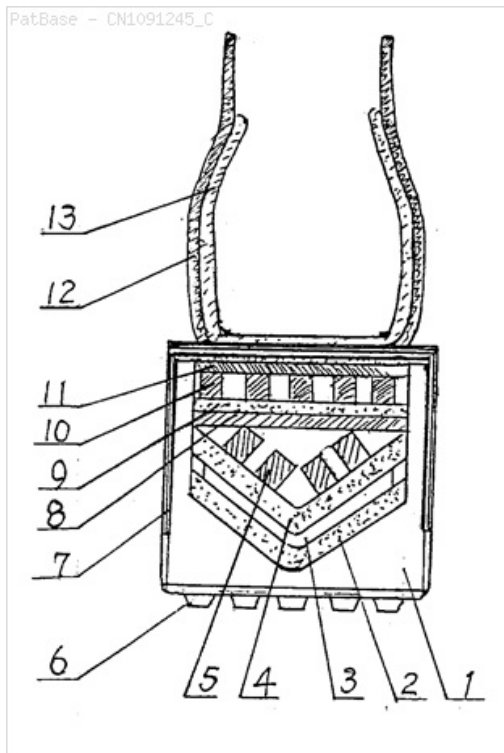
Abstract: Source: CN1265464A Structurally, the mine-sweeping explosion-proof boots features that the II-shaped shock resisting diffraction frame connected to the polystyrene carrier in the boot soles. Inside the carrier, there are from the bottom to top lower explosion-proof layer, buffering layer, upper explosion-proof layer, "trussed" foamed plastic strips, foaming plate layer, explosion-proof plate layer, transverse elastic sponge strips, and EVA plate layer, with the lower explosion-proof layer, buffering layer and upper explosion-proof layer being V-shaped. The vamp of boots has protecting layer inside the fiber fabric layer. The boots have the novel structure and powerful protecting capacity of blocking, separating and weakening direct shock and indirect diffraction of explosion and is light and convenient.

Classifications:

International (IPC 8-9): F41H1/00 (Advanced/Invention);

F41H1/00 (Core/Invention)

International (IPC 1-7): F41H1/00

**Family:**

Publication number	Publication date	Application number	Application date
CN1091245 C	20020918	CN20001012763	20000313
CN1265464 A	20000906	CN20001012763	20000313

Priority:

CN20001012763 20000313

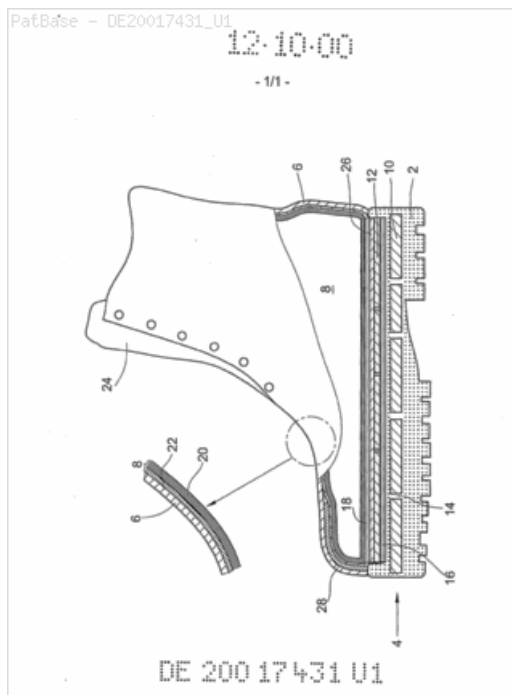
Probable Assignee: INST OF FIELD SURGERY NO 3 MIL**Assignee(s):** (std): INST OF FIELD SURGERY NO 3 MIL**Assignee(s):** INST OF FIELD SURGERY NO 3 MILITARY MEDICAL UNIV ; INST OF FIELD SURGERY NO 3 MILITARY MEDICAL UNIV P ; INST OF FIELD SURGERY NO 3 MILITARY MEDICAL UNIV PLA ; INST OF FIELD SURGERY NO3 MILITARY MEDICAL UNIV**Inventor(s):** (std): FU XIANGLIN ; LI SHUGUANG ; LI SHUQUANG ; LING FENG**Inventor(s):** SHUGUANG LI ; SHUQUANG LI ; XIANGLIN FU ; FENG LING**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN1091245 C	20020918	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1091245 C	20000906	LSPB	+C06	PUBLICATION	
CN1091245 C	20020918	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1265464 A	20000906	LSPB	+	published / reissued	

3) Family number: 16158086 (DE20017431U1)

© PatBase

Title: Minenschutzschuh Mine protection shoe (Machine translation)**Abstract:** Source: DE20017431U1 (Claim 1) Schutzansprüche 1. Minenschutzschuh mit einer Sohle (2) mit mindestens einer explosion-und splitterresistenten Schicht (4), dadurch gekennzeichnet, dass der Schuh aus einem Aussenschuh (6) und einem Innenschuh (8) besteht, bildenden Einzelplatten (10) besteht. 3.**Machine translation:** (Claim 1) requirements for protection 1. Mine protection shoe marked by a sole (2) by at least one explosion-und fragment-resistant layer (4), by it that the shoe consists of an external shoe (6) and an inner shoe (8), forming single plates (10) exists. 3.**Classifications:****International (IPC 1-7):** A43B13/12 A43B7/32 F41H13/00**CPC:** A43B1/00 A43B3/0026 A43B7/32 A43B13/02 A43B13/026 A43B13/12**European:** A43B1/00 A43B13/02 A43B13/02C A43B13/12 A43B3/00M A43B7/32



Family:

Publication number	Publication date	Application number	Application date
DE20017431 U1	20010118	DE20002017431U	20001010

Priority:

DE20002017431U 20001010

Probable Assignee: ERGONORM JAESCHKE GMBH

Assignee(s): (std): ERGONORM JAESCHKE GMBH ; HUENNINGHAUS WERNER

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
DE20017431 U1	20010118	LSGT	+	granted / extensions (spc, cpc, pte)	
DE20017431 U1	20010222	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20010222
DE20017431 U1	20040318	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20040113
DE20017431 U1	20070315	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	EFFECTIVE DATE : 20070109
DE20017431 U1	20090820	LSLE	-R158	LAPSE OF IP RIGHT AFTER 8 YEARS	EFFECTIVE DATE : 20090501

4) Family number: 47377410 (KR200213924Y)

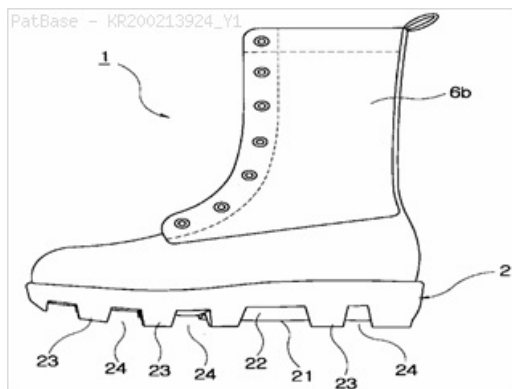
© PatBase

Title: Anti-personnel mine protection combatant anger (Machine translation)

Abstract: Source: KR200213924Y (Claim 1) 1. From there is to an anti-personnel mine combatant anger which becomes accomplished with the uppers of leather shoes which had become the bottom piece which had become the rubber window and part song and the leather, minute description bottom right and left width from standard about low front dreamy acquisition of wealth minute until rear dreamy acquisition of wealth minute the center department is projected with looking downward and the right and left both sides toward an upward [ca_hyeng] section at symmetry is formed with the slope and 'it has, to the circumference part the pressure exhaust space where the explosive pressure is discharged is formed, left, majority in order to be formed with right both sides with the bottom piece where the possibility mind bedspread groove which with [ca_hyeng], multiple support pebble addition also to surface section 'becomes is formed; It arrives safely in the mind groove each angle which can be formed in surface of the minute description bottom piece, in order for 'the section to accomplish a reverse triangle in the metal plank which has [ca_hyeng] section and the minute description metal plank, that insect position it became, with shocking shroud it is combined with elastic [su] phone [ci] authorization all; It covers minute description shocking shroud and it gives, the bulletproof petal which enemy layer between the minute description bottom piece and part song reaches; The bulletproofing which and inside forming the minute description uppers of leather shoes, lies between the outer cover and the room sal fiber fabric; With it composes and the anti-personnel mine protection combatant anger the fact that with feature.

Classifications:

International (IPC 8-9): F41H1/00 (Advanced/Non-invention)



Family:

Publication number	Publication date	Application number	Application date
KR200213924 Y1	20010215	KR20000024212U	20000826

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
KR200213924 Y1	20010215	LSGT	+	granted / extensions (spc, cpc, pte)	

5) Family number: 23130384 (US6725572B)

© PatBase

Title: Protective footwear against landmine

Abstract: Source: US6725572B Footwear (1) to protect a wearer from landmines including a substantially non-deformable metal sheet (5) below the foot of the wearer shaped and positioned to effect a redirection of any up-welling result of an exploding landmine to a side of the footwear (1) when being worn. The footwear (1) also including an outer hard shell (2) to deflect and direct any initial shock and pressure waves past the body elements of the wearer, the footwear (1) being pivotally connected to an upper protective surround (13).

Classifications:

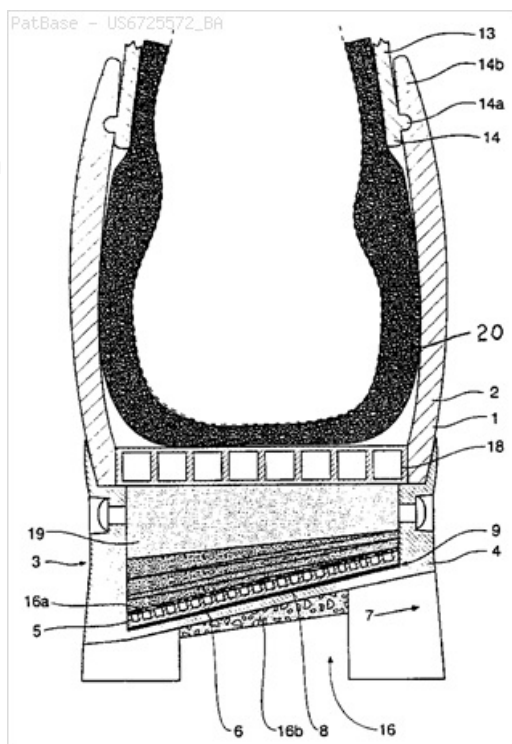
International (IPC 8-9): A43B1/14 A43B13/12 A43B13/14 A43B3/00 A43B7/20 A43B7/32 F41H1/00 (Advanced/Invention); A43B7/32 F41H1/00 (Core/Invention)

International (IPC 1-7): A43B13/12 A43B23/00 A43B7/32 F41H1/00

CPC: A43B1/14 A43B3/0026 A43B7/20 A43B7/32 A43B13/10 A43B13/12 A43B13/14

European: A43B1/14 A43B13/10 A43B13/12 A43B13/14 A43B3/00M A43B7/20 A43B7/32

US: 36/107 36/25R 36/30R 36/72R



Family:

Publication number	Publication date	Application number	Application date
AU200072620 A5	20010410	AU20000072620D	20000907
AU268799 A0	19990930	AU1999PQ02687	19990907
AU758705 B2	20030327	AU20000072620	20000907
CA2387438 AA	20020415	CA20002387438	20000907
EP1216393 A1	20020626	EP20000960234	20000907
EP1216393 A4	20030115	EP20000960234	20000907
US6725572 BA	20040427	US20020070699	20020709
WO0118479 A1	20010315	WO2000AU01059	20000907

Priority:

AU1999PQ02687 19990907 AU20000072620 20000907 WO2000AU01059 20000907

Probable Assignee: COMMW OF AUSTRALIA SECRETARY OF DEFENCE

Assignee(s): (std): COMMW OF AUSTRALIA ; KRSTIC A R ; KRSTIC ALEXANDER ; THE COMMONWEALTH OF AUSTRALIA

Assignee(s): THE COMMONWEALTH OF AUSTRALIA THE SECRETARY OF DEFENCE ; THE COMMONWEALTH OF AUSTRALIA THE SECRETARY OF DEF ; COMMW OF AUSTRALIA SECRETARY OF DEFENCE ; COMMW OF AUSTRALIA SECRETARY OF DEFENCE C SEC DEP

Inventor(s): (std): ALEXANDER KRSTIC ; KRSTIC ALEXANDER

Agent(s): OGILVY RENAULT LLP SENCRL SRL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU200072620 A5	20010410	LSPB	+	published / reissued	
AU268799 A0	20010607	LSAP	NAA1	APPLICATION DESIGNATING AUSTRALIA AND CLAIMING PRIORITY FROM AUSTRALIAN DOCUMENT	REF DOCUMENT NUMBER : 7262000 COUNTRY OF REF DOCUMENT : AU
AU758705 B2	20030327	LSGT	+	granted / extensions (spc, cpc, pte)	
AU758705 B2	20030724	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
CA2387438 AA	20020415	LSPB	+	published / reissued	
CA2387438 AA	20020415	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2387438 AA	20060907	LSLE	-FZDE	DEAD	
EP1216393 A1	20020626	LSPB	+	published / reissued	
EP1216393 A1	20020626	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020405
EP1216393 A1	20030115	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20021129
EP1216393 A1	20030115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	DESCRIPTION : 7F 41H 1/00 A, 7A 43B 7/32 B, 7A 43B 13/12 B
EP1216393 A1	20030709	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030523
EP1216393 A1	20060412	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20051205
US6725572 BA	20040427	LSGT	+	granted / extensions (spc, cpc, pte)	
US6725572 BA	20040510	LSAS	AS	ASSIGNMENT	OWNER NAME : COMMONWEALTH OF AUSTRALIA, THE SECRETARY OF DEFENC DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRSTIC, ALEXANDER; REEL/FRAME:015302/0197 EFFECTIVE DATE : 20040331
US6725572 BA	20080427	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6725572 BA	20080617	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20080427
WO0118479 A1	20010315	LSPB	+	published / reissued	
WO0118479 A1	20020405	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 72620/00 COUNTRY OF REF DOCUMENT : AU
WO0118479 A1	20020405	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000960234 COUNTRY OF REF DOCUMENT : EP
WO0118479 A1	20020415	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2387438 COUNTRY OF REF DOCUMENT : CA

WO0118479 A1	20020626	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000960234 COUNTRY OF REF DOCUMENT : EP
WO0118479 A1	20020709	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10070699 COUNTRY OF REF DOCUMENT : US
WO0118479 A1	20020814	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0118479 A1	20030710	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 72620/00 COUNTRY OF REF DOCUMENT : AU
WO0118479 A1	20040610	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO0118479 A1	20051205	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000960234 COUNTRY OF REF DOCUMENT : EP

6) Family number: 15318536 (WO0132042A1)

© PatBase

Title: THE MINE BOMBPROOF, BULLETPROOF SAFETY COMBAT BOOTS

Abstract: The mine bombproof, bulletproof safety combat boots has been invented to protect a soldier or a private citizen specially for an ankle from bomb of laid a mine and stand from an explosive power, with make an application of the theory, to absorb of exposure with variable power as like tire of automobile, to the moulded outsole press on a high molecule fiber aramid and a high elastic rubber having the function for mine bombproof, bulletproof.

Classifications:

International (IPC 8-9): A43B3/00 A43B7/32 (Advanced/Invention);

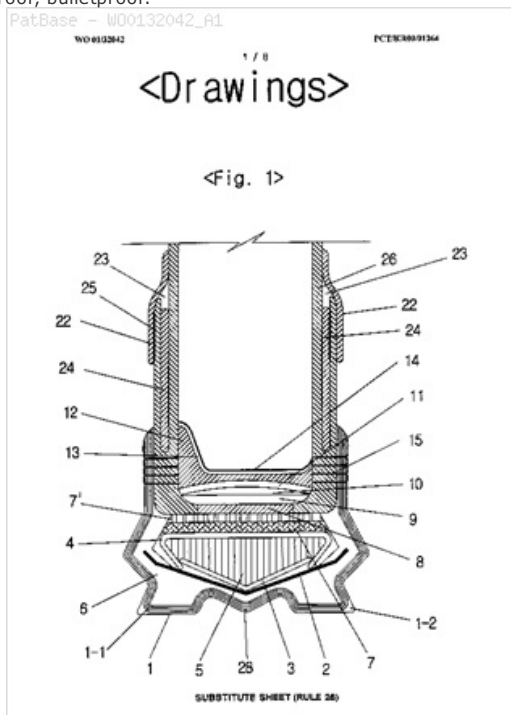
A43B3/00 (Advanced/Non-invention);

A43B3/00 A43B7/32 (Core/Invention)

International (IPC 1-7): A43B13/12 A43B3/00 A43B7/32

CPC: A43B3/0026 A43B7/32

European: A43B3/00M A43B7/32



Family:

Publication number	Publication date	Application number	Application date
KR100320671 B1	20020117	KR19990048601	19991104
KR20010045340 A	20010605	KR19990048601	19991104
WO0132042 A1	20010510	WO2000KR01264	20001104

Priority:

KR19990048601 19991104

Probable Assignee:

LEE KYUN CHUL

Assignee(s): (std):

LEE GYUN CHEOL ; LEE KYUN CHUL

Inventor(s): (std):

LEE GYUN CHEOL ; LEE KYUN CHUL

Designated states:

BY CN DE JP RU UA US

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
KR100320671 B1	20020117	LSGT	+	granted / extensions (spc, cpc, pte)	
KR20010045340 A	20010605	LSPB	+	published / reissued	
KR20010045340 A	19991104	LSSES	A201	REQUEST FOR EXAMINATION	
KR20010045340 A	20011116	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20010045340 A	20020102	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20010045340 A	20050103	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
WO0132042 A1	20010510	LSPB	+	published / reissued	
WO0132042 A1	20020314	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642

7) Family number: 28527862 (WO03037125A1)

© PatBase

Title: ANTI LAND-MINE BOOTS

Abstract: The anti land-mine boot comprises an upper with a lasting insole and a half-sole attached to the upper by means of a system of at least two middle soles. The lasting insole (2) and/or at least one of the middle soles (5, 6) are made from a composite comprising at least three layers of para-aramide fabric fixed in a polymer matrix and the boot upper (3) incorporates at least one layer of the reinforcing para-aramide fabric (4) between lining and the upper material, the lining with these interlayers being covered by at least three layers of para-aramide fabric in the walking part of the boot. Edge parts (8) of the said three layers of the para-aramide fabric divided about their circumference are turned up and oriented in such a way that the circumferential joints of the turned up edge parts are mutually shifted and overlapped in separate layers. In boot tip, heel and/or insole regions protective segments (1) of a composite comprising at least one layer of para-aramide fabric fixed in polymer matrix are built into the boot structure.

Classifications:

International (IPC 8-9): A43B13/12 A43B23/00 A43B3/00

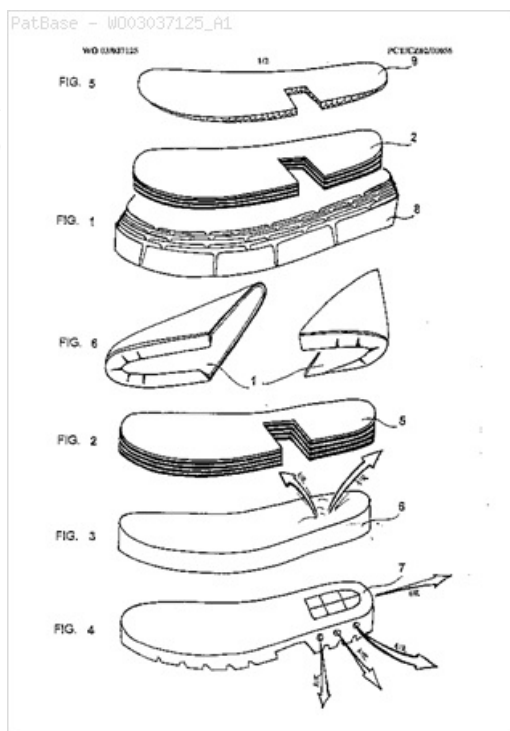
A43B7/32 (Advanced/Invention);

A43B13/02 A43B23/00 A43B3/00 A43B7/32 (Core/Invention)

International (IPC 1-7): A43B13/12 A43B23/00 A43B7/32 F41H11/12

CPC: A43B3/0026 A43B13/12 A43B13/026 A43B7/32

European: A43B13/02C A43B13/12 A43B3/00M A43B7/32 F41H1/00



Family:

Publication number	Publication date	Application number	Application date
CZ12005 U1	20020417	CZ20010012693U	20011228
CZ291156 B6	20021211	CZ20010003870	20011029
WO03037125 A1	20030508	WO2002CZ00056	20021018

Priority:

CZ20010003870 20011029 CZ20010012693U 20011228

Probable Assignee: ZEMAN LIBOR

Assignee(s): (std): ZEMAN LIBOR ; ZEMAN LIBOR ING ; ZEMAN PETR

Inventor(s): (std): ZEMAN LIBOR ; ZEMAN PETR ; ZEMAN LIBOR ING

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CZ12005 U1	20020417	LSGT	+	granted / extensions (spc, cpc, pte)	
CZ12005 U1	20060614	LSLE	-MK1K	Lapse of utility model due to expiry	EFFECTIVE DATE : 20051029
CZ291156 B6	20021211	LSGT	+	granted / extensions (spc, cpc, pte)	
CZ291156 B6	20070523	LSLE	-MM4A	Lapse of patent due to failure of payment of fees	EFFECTIVE DATE : 20061029
CZ291156 B6	20100519	LSLE	-MM4A	Lapse of patent due to failure of payment of fees	EFFECTIVE DATE : 20091029
WO03037125 A1	20030508	LSPB	+	published / reissued	
WO03037125 A1	20060525	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO03037125 A1	20060525	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : JP

8) Family number: 27122070 (WO02100206A1)

© PatBase

Title: SAFETY COMBAT SHOES

Abstract: The safety combat boots has been invented to protect wholly a soldier or a private citizen, specially for an ankle from bomb of laied a land-mine and stand from an explosive power, with make an application of the theory, in addition to anyone can always put on this combat boots. The safety combat boots has been used bullet proof material, shock absorpionare and composed of 21 steps. These 21 steps are composed of inside of 2 steps for shock-dispersion, inside of 2 steps for shock absorpion and reflection honeycomb, vacuum layer of steps for wavelength mitigative, gel of 7 steps...etc. First the outsole of safety combat boots can reduce explosive force about 50 percent, and then explosive force can be shock-disperse (pass from inside of outsole through the vacuum layer) about 50 percent. So third inside of outsole can protect feet and ankles because of second outsole.

Classifications:

International (IPC 8-9): A43B13/00 A43B13/02 A43B13/12

A43B13/18 A43B3/00 A43B7/32 (Advanced/Invention);

A43B13/00 (Advanced/Non-invention);

A43B13/00 (Core/Invention)

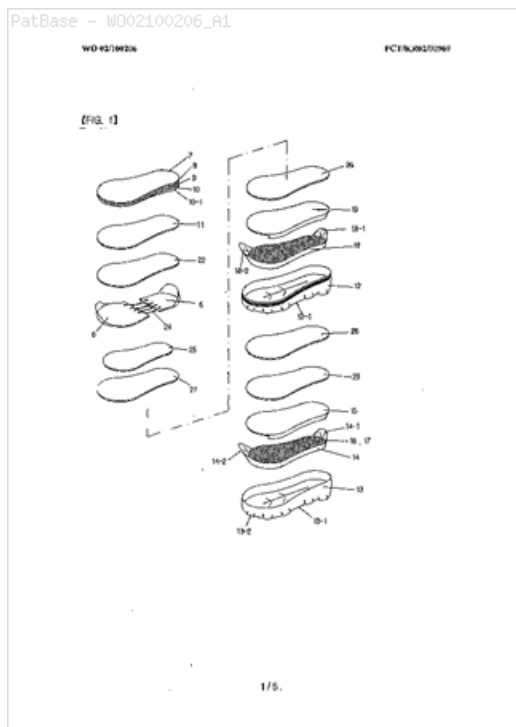
International (IPC 1-7): A43B13/00

CPC: A43B3/0026 A43B7/32 A43B13/02 A43B13/10 A43B13/12

A43B13/187

European: A43B13/02 A43B13/10 A43B13/12 A43B13/18F

A43B3/00M A43B7/32



Family:

Publication number	Publication date	Application number	Application date
KR100484227 B1	20050523	KR20010027978	20010522
KR20020088907 A	20021129	KR20010027978	20010522
WO02100206 A1	20021219	WO2002KR00969	20020522

Priority:

KR20010027978 20010522

Probable Assignee: TVAS CO LTD

Assignee(s): (std): LEE KYUN CHUL ; TVAS CO LTD

Assignee(s): TVAS CO

Inventor(s): (std): LEE GYUN CHEOL ; LEE KYUN CHUL

Designated states: AL BG BR BY CN DE GB HR ID IL JP MX MZ RU SE SG UA US VN

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
KR100484227 B1	20050523	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100484227 B1	20010522	LSES	A201	REQUEST FOR EXAMINATION	
KR100484227 B1	20040317	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100484227 B1	20050105	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100484227 B1	20050411	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100484227 B1	20120412	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20120412 YEAR OF FEE PAYMENT : 8
KR100484227 B1	20130417	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20130417 YEAR OF FEE PAYMENT : 9
KR100484227 B1	20140412	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR20020088907 A	20021129	LSPB	+	published / reissued	
WO02100206 A1	20021219	LSPB	+	published / reissued	
WO02100206 A1	20040401	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02100206 A1	20060420	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO02100206 A1	20060420	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : JP

9) Family number: 31025500 (US2003168679A)

Title: SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

Abstract: Source: US2003168679A A semiconductor device including an overcoat layer of a transparent material disposed on a substrate, a projection formed on the overcoat layer, a convex intralayer lens of an inorganic material formed to include the projection as a core and a transparent film with a flat top surface formed on the convex intralayer lens.

Classifications:

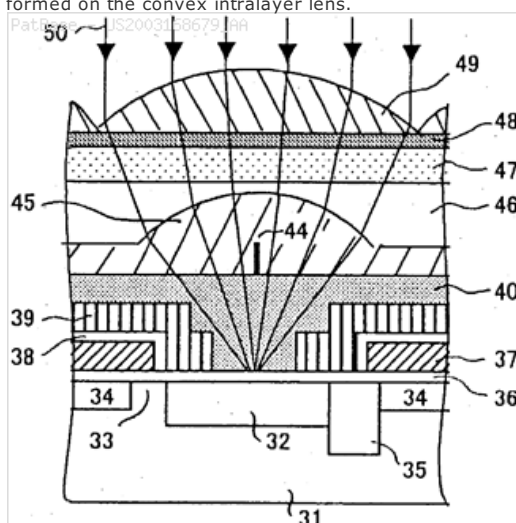
International (IPC 8-9): G02B3/00 H01L27/14 H01L27/146 H01L31/0232 H01L31/10 H01L33/00 H01L33/20 H01L33/58 H04N5/335 H04N5/369 H04N5/372 (Advanced/Invention); H01L27/14 (Advanced/Non-invention); H01L27/14 (Core/Invention)

International (IPC 1-7): G02B3/00 G02F1/1335 H01L21/00
H01L27/14 H01L27/148 H01L31/00 H01L31/0232 H01L31/062
H01L31/10 H01L31/232 H01L33/00 H04N5/335 H04N5/35

CPC: H01L27/14685 H01L27/14627

European: H01L27/146A10M H01L27/146V2

US: 257/257 257/258 257/291 257/291P 257/292 257/292S 257/294
257/294S 257/432 257/432S 257/461 257/462 257/E31.128 438/48
438/48S 438/7 438/70 438/70S



Family:

Publication number	Publication date	Application number	Application date
CN1265464 C	20060719	CN20031004377	20030131
CN1437267 A	20030820	CN20031004377	20030131
GB200302644 A0	20030312	GB20030002644	20030205
GB2387967 A1	20031029	GB20030002644	20030205
GB2387967 B2	20040707	GB20030002644	20030205
JP2003229553 A2	20030815	JP20020028436	20020205
KR100540421 B1	20060111	KR20030006717	20030204

KR20030066445 A	20030809	KR20030006717	20030204
SG102069 A1	20040227	SG20030000320	20030205
TW200308083 A	20031216	TW20030102216	20030130
TWI283061 B	20070621	TW20030102216	20030130
US2003168679 AA	20030911	US20030358673	20030205
US6903395 BB	20050607	US20030358673	20030205

Priority:

JP20020028436 20020205

Probable Assignee: KAISHA SHARP KABUSHIKI

Assignee(s): (std): SHARP KK

Assignee(s): SHARP KABUSHIKI KAISHA ; AGOH FUJIO ; KAISHA SHARP K USHIKI AB ; KAISHA SHARP KABUSHIKI ; NAKAI JUNICHI ; SHARP CORP ; SHARP K K

Inventor(s): (std): NAKAI JUNICHI ; AGOH FUJIO ; JUNICHI NAKAI ; FUJIO AGO ; AGO FUJIO ; FUJIO AGOH ; FUJIO NAKAI JUNICHI AGO

Inventor(s): NAKAI JUNICHI AGO FUJIO

Agent(s): NOGAWA SHINTARO; EDWARDS AND ANGELL LLP; CONLIN DAVID G; NEUNER GEORGE W; DAVID G; GEORGE W

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN1265464 C	20060719	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1265464 C	20030820	LSPB	+C06	PUBLICATION	
CN1265464 C	20060719	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1437267 A	20030820	LSPB	+	published / reissued	
GB2387967 A1	20031029	LSPB	+	published / reissued	
GB2387967 A1	20161026	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20160205
GB2387967 B2	20040707	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2003229553 A2	20030815	LSPB	+	published / reissued	
KR100540421 B1	20060111	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100540421 B1	20030204	LSER	A201	REQUEST FOR EXAMINATION	
KR100540421 B1	20050228	LSER	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100540421 B1	20050630	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR100540421 B1	20050829	LSRE	AMND	AMENDMENT	
KR100540421 B1	20051012	LSGT	+B701	DECISION TO GRANT	
KR100540421 B1	20051226	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100540421 B1	20121130	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20121130 YEAR OF FEE PAYMENT : 8
KR100540421 B1	20131218	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20131218 YEAR OF FEE PAYMENT : 9
KR100540421 B1	20141219	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20141219 YEAR OF FEE PAYMENT : 10
KR100540421 B1	20151218	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20151218 YEAR OF FEE PAYMENT : 11
KR20030066445 A	20030809	LSPB	+	published / reissued	
SG102069 A1	20040227	LSPB	+	published / reissued	
TW200308083 A	20031216	LSPB	+	published /	

TWI283061 B	20070621	LSGT	+	reissued	
US2003168679 AA	20030911	LSPB	+	granted / extensions (spc, cpc, pte)	
US6903395 BB	20050607	LSGT	+	published / reissued	
US6903395 BB	20050607	LSGT	+	granted / extensions (spc, cpc, pte)	
US6903395 BB	20030428	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAISHA, SHARP KABUSHIKI, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: NAKAI, JUNICHI; AGOH, JUJIO; REEL/FRAME: 014011/0862 EFFECTIVE DATE : 20030123
US6903395 BB	20081106	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6903395 BB	20121107	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

10) Family number: 30110077 (US2006000117A)

© PatBase

Title: PROTECTIVE FOOTWEAR

Abstract: Source: US2006000117A An article of protective footwear in the form of a boot (10) protects a foot (12) of a user against effects of a landmine explosion. A composite sole volume (16) between an outer sole (18) and an inner sole (20) incorporates shock wave guide elements (28) of a material having a high acoustic speed, in the form of glass strips which extend spatially from the outer sole (18) obliquely laterally outwardly to a side of the sole volume. The strips (28) are surrounded by liquid. Above the strips (28) and below the inner sole (20), there is provided a barrier of material having a low acoustic speed, e.g. vermiculite. Surrounding the foot (12), opposed to the sole of the foot, there is provided a fluid having a high acoustic speed, e.g. glycerin to ensure effective transfer of any shock wave component entering the foot, away from the foot.

Classifications:

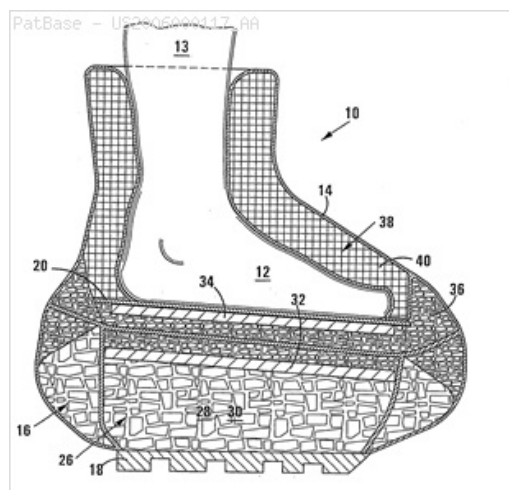
International (IPC 8-9): A43B13/12 A43B13/22 A43B23/00
A43B3/00 (Advanced/Invention);
A43B13/02 A43B13/14 A43B23/00 A43B3/00 (Core/Invention);
A43B (Subclass/Invention)

International (IPC 1-7): A43B3/00

CPC: A43B3/0026

European: A43B3/00M

US: 36/107 36/113 36/25R 36/30R 36/72R 36/73



Family:

Publication number	Publication date	Application number	Application date
AT352219 E	20070215	AT20030727766T	20030527
AU2003232967 AA	20031219	AU20030232967	20030527
AU2003232967 BB	20081113	AU20030232967	20030527
CA2487435 AA	20041126	CA20032487435	20030527
CA2487435 C	20111220	CA20032487435	20030527
CN100486473 C	20090513	CN20038015570	20030527
CN1665416 A	20050907	CN20038015570	20030527
DE60311472 D1	20070315	DE20036011472	20030527
DE60311472 T2	20071025	DE20036011472T	20030527
EP1531695 A2	20050525	EP20030727766	20030527
EP1531695 B1	20070124	EP20030727766	20030527
ES2281643 T3	20071001	ES20030727766T	20030527
US2006000117 AA	20060105	US20030516403	20030527
US7530181 BB	20090512	US20030516403	20030527
WO03101234 A2	20031211	WO20031B02032	20030527
WO03101234 A3	20040521	WO20031B02032	20030527
ZA200410107 A	20051130	ZA20040010107	20041214

Priority:

WO20031B02032 20030527 ZA20020004368 20020531 ZA20020004480 20020605
ZA20030000684 20030124 ZA20040010107 20041214

Probable Assignee: CSIR

Assignee(s): (std): CSIR ; JOYNT VERNON P ; JOYNT VERNON PEREGRIN ; VAN DYK JACOBUS T ; VAN DYK JACOBUS THEODORUS

Inventor(s): (std): DYK JACOBUS THEODORUS VAN ; JACOBUS THEODORUS VAN DYK ; JOYNT PEREGRIN ; JOYNT VERNON P ; JOYNT VERNON PEREGRIN ; PEREGRIN JOYNT VERNON ; THEODORUS DYK JACOBUS VAN ; VAN DYK JACOBUS T ; VAN DYK JACOBUS THEODORUS ; VAN DYK THEODORUS ; VERNON PEREGRIN JOYNT

Inventor(s): VAN DYK JACOBUS ; JOYNT VERNON

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; SHERIDAN ROSS PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AT352219 E	20070215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT352219 E	20070715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AU2003232967 AA	20031219	LSPB	+	published / reissued	
AU2003232967 AA	20090312	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2003232967 BB	20081113	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2487435 AA	20041126	LSPB	+	published / reissued	
CA2487435 AA	20041126	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2487435 AA	20080508	LSES	+EEER	EXAMINATION REQUEST	
CA2487435 C	20111220	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100486473 C	20090513	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1665416 A	20050907	LSPB	+	published / reissued	
CN1665416 A	20050907	LSPB	+C06	PUBLICATION	
CN1665416 A	20090513	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
DE60311472 D1	20080214	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60311472 T2	20071025	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1531695 A2	20050525	LSPB	+	published / reissued	
EP1531695 A2	20050525	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20041222
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	EFFECTIVE DATE : 20070124 REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CH DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20070124	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1531695 A2	20070215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1531695 A2	20070307	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1531695 A2	20070424	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070424
EP1531695 A2	20070425	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF EXPIRATION OF PROTECTION EFFECTIVE DATE : 20070425
EP1531695 A2	20070625	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070625
EP1531695 A2	20070731	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1531695 A2	20070801	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	
EP1531695 A2	20071001	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2281643 KIND CODE OF REF DOCUMENT : T3
EP1531695 A2	20071124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20080102	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20071025
EP1531695 A2	20080102	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	REF COUNTRY CODE : BE DESCRIPTION : LAPSE

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20080102	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20080131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20070531
EP1531695 A2	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070425
EP1531695 A2	20080530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20070528
EP1531695 A2	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124
EP1531695 A2	20090731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20090513 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20070527
EP1531695 A2	20090831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20090514 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20090831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20090515 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20090831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20090525 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070725
EP1531695 A2	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20070124

EP1531695 A2	20091130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20090527 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20091130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20090629 YEAR OF FEE PAYMENT : 07
EP1531695 A2	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20100329 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20100730	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20100511 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20100730	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20100519 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20100831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20100427 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20100831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20100429 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20100831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20100428 YEAR OF FEE PAYMENT : 08
EP1531695 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20110517 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20110509 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20110426 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20110831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20110525 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20110930	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20110624 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20110930	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20110526 YEAR OF FEE PAYMENT : 09
EP1531695 A2	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120523 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20120503 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120608 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120523 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120608 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120518 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120518 YEAR OF FEE PAYMENT : 10
EP1531695 A2	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20120607 YEAR OF FEE PAYMENT : 10

EP1531695 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 11
EP1531695 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20130514 YEAR OF FEE PAYMENT : 11
EP1531695 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 11
EP1531695 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130518 YEAR OF FEE PAYMENT : 11
EP1531695 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130531 YEAR OF FEE PAYMENT : 11
EP1531695 A2	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140521 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140523 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140521 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140509 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20140429 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20140507 YEAR OF FEE PAYMENT : 12
EP1531695 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20150428 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20150506 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150519 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150527 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150515 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150508 YEAR OF FEE PAYMENT : 13
EP1531695 A2	20160426	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20160505 YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160524 YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20160427 YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : GB PAYMENT DATE : 20160525

				NATIONAL OFFICE	YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160524 YEAR OF FEE PAYMENT : 14
EP1531695 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160426 YEAR OF FEE PAYMENT : 14
EP1531695 B1	20070124	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2281643 T3	20071001	LSGT	+	granted / extensions (spc, cpc, pte)	
US2006000117 AA	20060105	LSPB	+	published / reissued	
US7530181 BB	20090512	LSGT	+	granted / extensions (spc, cpc, pte)	
US7530181 BB	20050729	LSAS	AS	ASSIGNMENT	OWNER NAME : CSIR, SOUTH AFRICA DESCRIPTION : ASSIGNORS INTEREST; ASSIGNORS:JOYNT, VERNON PEREGRIN; VAN DYK, JACOBUS; REEL/FRA:016325/0041 EFFECTIVE DATE : 20050628
US7530181 BB	20121112	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7530181 BB	20161114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
WO03101234 A2	20031211	LSPB	+	published / reissued	
WO03101234 A3	20041126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2487435 COUNTRY OF REF DOCUMENT : CA
WO03101234 A3	20041222	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003727766 COUNTRY OF REF DOCUMENT : EP
WO03101234 A3	20041224	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003232967 COUNTRY OF REF DOCUMENT : AU
WO03101234 A3	20041230	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038155702 COUNTRY OF REF DOCUMENT : CN
WO03101234 A3	20050525	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003727766 COUNTRY OF REF DOCUMENT : EP
WO03101234 A3	20050729	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006000117 COUNTRY OF REF DOCUMENT : US KIND CODE OF REF DOCUMENT : A1
WO03101234 A3	20050729	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10516403 COUNTRY OF REF DOCUMENT : US
WO03101234 A3	20060105	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10516403 COUNTRY OF REF DOCUMENT : US
WO03101234 A3	20060707	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO03101234 A3	20060707	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : JP
WO03101234 A3	20070124	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003727766 COUNTRY OF REF DOCUMENT : EP
ZA200410107 A	20051130	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: The battle for the safety of the mines for booties (Machine translation)

en el fondo de la plantilla de armado. La bota antiminas de la reivindicacion 2 se caracteriza porque la plantilla suela es de material antiexplosivo semielaborado y debe ser cementada antes de iniciar cualquier proceso (inyeccion directa, moldeado directo, proceso en frio u otro proceso). Las botas antiminas de la reivindicacion 2 se caracteriza por tener una estructura con estatica y resistencia de los materiales en el momento en que suceda el impacto, la explosion y la onda explosiva. less than EMI FILE="06014140_1" ID="1" IMF=JPEG HE=50 WI=50 greater than Boot antipersonnel land mine, is characterized in that it comprises: Heel Leather organizer caliber 1.8 - 2.1 mm, tailored leather uppers caliber 1.8 - 2.1 mm is integrally from toe to heel, one lungeeta caliber leather 1.8 - 2.1 mm, reinforcing strip manufactured from leather heel caliber 1.8 - 2.1 mm two-piece explosion-proof material lining layer two heel reinforcement layer anti-explosive material an integral high bonding strength lining, a material rubber-eva neck, a buttress of high-strength synthetic material, a cutting-edge of high-strength synthetic material, 6 normal ojaletes and ten quick release, a braided cord. The mine boot of claim 1 characterized in that the lungeeta is integrally lined bellows type and explosion proof material. The mine boot of claim 2 characterized in that the assembly template has six layers of semi Proof material. The mine boot of claim 2 characterized in that the finish assembling template is assembled once you have finished making the linings of joints in the bottom of the template assembly. The mine boot of claim 2 characterized in that the sole is blank template Proof material and must be cemented before starting any process (direct injection, direct casting, cold process or other process). The mine boots of claim 2 is characterized by a structure with static and resistance of the materials at the time it happens the impact, the explosion and the blast. less than EMI FILE = "06014140_1" ID = "1" IMF = JPEG HE = 50 WI = 50 greater than

Classifications:
International (IPC 8-9): F41H1/00 (Advanced/Invention);
F41H1/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
C05650075 A1	20060630	CO20060014140	20060213

Priority:
CO20060014140 20060213

Probable Assignee: CASTRO PULIDO HERIBERTO
Assignee(s): (std): CASTRO PULIDO HERIBERTO
Assignee(s): HERIBERTO CASTRO PULIDO
Inventor(s): (std): CASTRO PULIDO HERIBERTO
Inventor(s): HERIBERTO CASTRO PULIDO

Legal status (INPADOC)

[View legal status timeline](#)

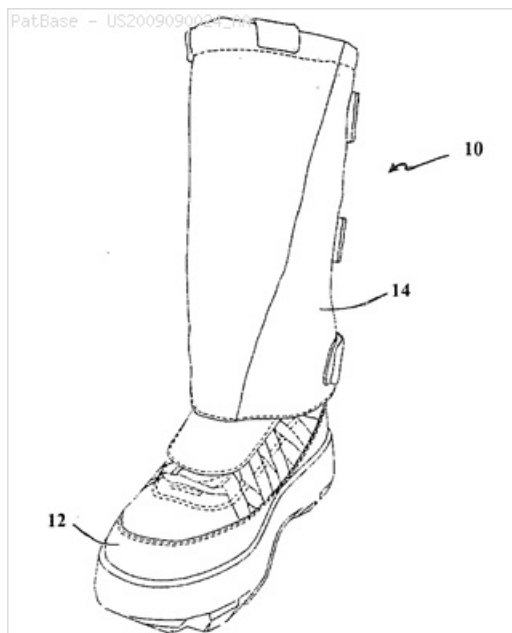
Patent	Date recorded	Event group	Code	Event	Details
C05650075 A1	20060630	LSPB	+	published / reissued	

13) Family number: 43125259 (US2009090024A) © PatBase

Title: BOOTS FOR MINIMIZING INJURY FROM EXPLOSIVES

Abstract: Source: US2009090024A A boot for reducing injury from a close range explosion includes a sole unit, an upper, and a shin guard. The sole unit includes at least an outer sole, a shank sheet composite, a shank filler and an insole. At least the shank sheet composite includes a plurality of layers having a pyramid shape and is formed of a strong composite fiber. The upper is attached to the sole unit and is formed of a laminated canvas. The shin guard is connectable to the upper and protects an ankle and leg of a user. The shin guard is formed of a strong composite fiber.

Classifications:
International (IPC 8-9): A41D17/00 A43B1/08 A43B13/14 A43B13/38 A43B23/00 A43B23/07 A43B3/00 (Advanced/Invention);
A41D17/00 A43B1/00 A43B13/14 A43B13/38 A43B23/00 A43B3/00 (Core/Invention)
International (IPC 1-7): A43B23/00
CPC: A43B3/24 A41D17/00 A43B3/0026 A43B13/026 A43B13/12 A43B13/14 A43B13/14 A43B23/06
European: A41D17/00 A43B13/02C A43B13/12 A43B13/14 A43B23/06 A43B3/00M A43B3/24

**Family:**

Publication number	Publication date	Application number	Application date
TH117444 A	20121115	TH20071005013	20071003
US2009090024 AA	20090409	US20080245346	20081003

Priority:

TH20071005013 20071003

Probable Assignee: BANPAN RESEARCH LABORATORY CO LTD**Assignee(s):** (std): BANPAN RES LAB CO LTD**Assignee(s):** BANPAN RESEARCH LABORATORY CO LTD**Inventor(s):** (std): PHLAWADANA WEERA ; VANADURONGWAN VICHA**Agent(s):** FAEGRE AND BENSON LLP,PATENT DOCKETING**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
TH117444 A	20121115	LSPB	+	published / reissued	
US2009090024 AA	20090409	LSPB	+	published / reissued	
US2009090024 AA	20081202	LSAS	AS	ASSIGNMENT	OWNER NAME : BANPAN RESEARCH LABORATORY CO. LTD., THAILAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PHLAWADANA, WEERA, DR.; VANADURONGWAN, VICHA, DR.; REEL/FRAME:021914/0837 EFFECTIVE DATE : 20081031

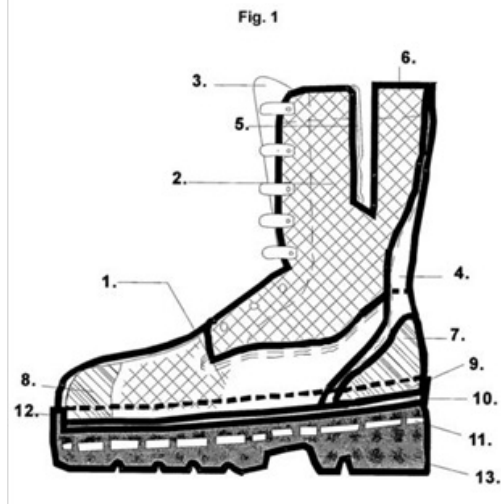
14) Family number: 44431009 (WO10020830A1)

© PatBase

Title: ANTI-MINE BOOT

Abstract: The anti-mine boot of the present invention is a contribution to human welfare and is manufactured from water-repellent leather, with explosion-protection material in the inner linings, insoles, midsoles and outsole; the sole is produced from rubber that has the characteristics and properties required to withstand high temperatures, the explosion wave, impact and kinetic energy reduction. The main objective of the present invention is to reduce soft-tissue, bone and vascular injuries to the foot and leg of victims involved in antipersonnel mine explosions. This protective element will prevent mutilations and amputations; it will be possible to treat any potential injuries with medical procedures, with a view to aiding physical recovery, reducing psychological trauma on the part of the victim and the latter's family members, thereby reducing the high costs to be borne by the governing authorities in the course of rehabilitation processes.

Classifications:**International (IPC 8-9):** A43B3/00 A43B7/32 (Advanced/Invention); A43B3/00 A43B7/32 (Core/Invention)**CPC:** A43B3/0026**European:** A43B3/00M

**Family:**

Publication number	Publication date	Application number	Application date
WO10020830 A1	20100225	WO2008IB02344	20080820

Priority:

WO2008IB02344 20080820

Probable Assignee: HERIBERTO CASTRO PULIDO HERIBE**Assignee(s):** (std): HERIBERTO CASTRO PULIDO HERIBE**Assignee(s):** HERIBERTO CASTRO PULIDO HERIBERTO**Inventor(s):** (std): HERIBERTO CASTRO PULIDO HERIBERTO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
WO10020830 A1	20100225	LSPB	+	published / reissued	
WO10020830 A1	20110222	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10020830 A1	20111005	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 08789130 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1

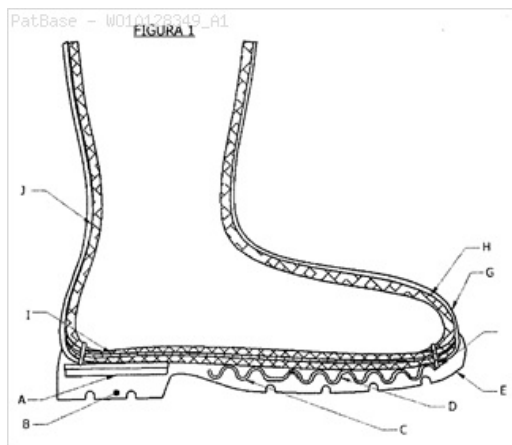
15) Family number: 47543676 (WO10128349A1)

© PatBase

Title: BOOT FOR PROTECTION AGAINST "SHOCK WAVE" ANTI-PERSONNEL MINES

Abstract: The BOOT FOR PROTECTION AGAINST "SHOCK WAVE" ANTI-PERSONNEL MINES comprises a simple and robust generic body-shield system for preventing injuries caused when an anti-personnel mine is triggered, said system being integrated into a boot. The system comprises a shield with threefold protection: a sole for absorbing pressure and thermal energy; a deflector for dissipating thermal energy in so far as it is broken down and reflects pressure, a main shield for containing the pressure shock wave and a secondary shield for providing protection from fragments, which together dissipate the shock wave, and provide protection from high temperatures and from the fragments generated during the explosion of the artefact. The land conditions for which the invention has been developed, lightweightness, size and flexibility to facilitate use, and lower costs and triple protection (fragments, shock wave and high temperature) are aspects taken into account and incorporated in this invention.

Classifications:**International (IPC 8-9):** A43B3/00 F41H1/00 (Advanced/Invention)**CPC:** A43B3/0026 A43B13/127**European:** A43B13/12M10 A43B3/00M



Family:

Publication number	Publication date	Application number	Application date
EP2433514 A1	20120328	EP20090844310	20090505
WO10128349 A1	20101111	WO2009IB05619	20090505

Priority:

WO2009IB05619 20090505

Probable Assignee: DUQUE ANDRES

Assignee(s): (std): DUQUE ANDRES ; PEREZ ESTEBAN

Inventor(s): (std): DUQUE ANDRES ; PEREZ ESTEBAN

Agent(s): MARTIN SANTOS VICTORIA SOFIA; MARQUEZ ANDRES ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
EP2433514 A1	20120328	LSPB	+	published / reissued	
EP2433514 A1	20120328	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111203
EP2433514 A1	20160525	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20151201
WO10128349 A1	20101111	LSPB	+	published / reissued	
WO10128349 A1	20111107	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

16) Family number: 47632203 (WO10130231A1)

© PatBase

Title: BLAST PROTECTIVE BOOTS WITH OPTIMIZED DESIGN COMPONENTS

Abstract: Protective boot (see fig. 1) is made up of an upper (1) with a tension insole and an attached system of bottom boot segment based on at least two middle soles and a sole. At least one layer of para-aramid fiber based reinforcing textile (2) is inserted and/or cemented between the top material (1) and the lining. The tension insole and/or at least one of the middle soles (5, 8) are based on composites of at least three layers of para-aramid fiber textile fixed in a polymer matrix and the whole bottom segment of the boot is formed by a sandwich design. The density of the individual material parts in this sandwich system of middle soles (5, 8) and the sole (9) in the bottom segment of the boot differs in a way that the difference in the density of the various composite materials used in the adjacent middle soles (5, 8), or to be more precise the sole (9), and the difference in the density of the adjacent layers in the sandwich multilayer structure of the corresponding middle sole (5, 8) must be at least 0.1 grams per cubic centimetre and the material hardness in the individual parts of the system of middle soles (5, 8) and the sole (9) in the bottom segment of the boot differ in a way that difference in the hardness of the composite materials in the adjacent middle soles (5, 8), or to be more precise sole (9), and the difference in the hardness of the adjacent layers of the sandwich multilayer structure of the corresponding middle sole (5, 8) must be at least 1 ShA. Thickness of each individual middle sole (5, 8) and the sole (9) of the sandwich system must be at least 10 mm and the total thickness of the middle soles and sole system in the bottom segment of the boot must be at least 30 mm.

Classifications:

International (IPC 8-9): A43B13/12 A43B23/07 A43B3/00

A43B7/32 (Advanced/Invention);

A43B23/00 A43B3/00 (Core/Invention)

CPC: A43B3/0026 A43B7/32 A43B13/026 A43B13/12 A43B13/20

A43B23/0225 A43B23/07

European: A43B13/02C A43B13/12 A43B13/20 A43B23/02B30

A43B23/07 A43B3/00M A43B7/32

**Family:**

Publication number	Publication date	Application number	Application date
CZ20090297 A3	20101124	CZ20090000297	20090514
EA201171408 A1	20120530	EA20110071408	20100402
EP2461709 A1	20120613	EP20100730038	20100402
IN02495MN2011 A	20121102	IN2011MN02495	20111123
UA103389 C2	20131010	UA20110104849	20100402
WO10130231 A1	20101118	WO2010CZ00038	20100402
WO10130231 A4	20110217	WO2010CZ00038	20100402

Priority:

CZ20090000297 20090514 WO2010CZ00038 20100402

Probable Assignee: ZEMAN LIBOR**Assignee(s):** (std): ZEMAN LIBOR**Inventor(s):** (std): ZEMAN LIBOR**Agent(s):** KREIZLOVA DANA; GORIG JAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CZ20090297 A3	20101124	LSPB	+	published / reissued	
EA201171408 A1	20120530	LSPB	+	published / reissued	
EP2461709 A1	20120613	LSPB	+	published / reissued	
EP2461709 A1	20120613	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120411
EP2461709 A1	20140409	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20131101
IN02495MN2011 A	20121102	LSPB	+	published / reissued	
UA103389 C2	20131010	LSGT	+	granted / extensions (spc, cpc, pte)	
WO10130231 A1	20101118	LSPB	+	published / reissued	
WO10130231 A4	20111114	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10130231 A4	20111214	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : A201114849 COUNTRY OF REF DOCUMENT : UA

Abstract: Source: US8047117B A blast wave attenuator comprising: a deflector and a foam or foamed composite inside of the deflector. The foamed composite may be a combination of fabrics, fibers, and small reinforcements embedded in a polymeric foam matrix. The foamed composites can be fabricated using a one-step process. The deflector can be manufactured from metal sheets including but not limited to titanium, stainless steel, carbon steel, and superalloys. The blast wave attenuator of the present invention greatly improves the impact resistance and protection of blast protective footwear and combat boots or the like without sacrificing traction or mobility.

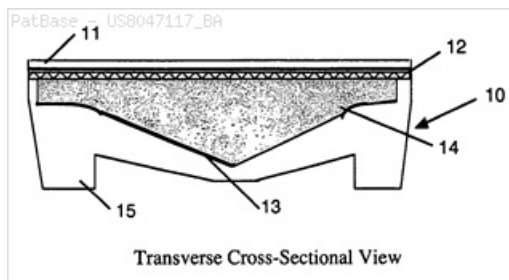
Classifications:

International (IPC 8-9): F41H5/08 (Advanced/Invention)

CPC: F41H1/00 A43B3/0026

European: A43B3/00M F41H1/00

US: 36/73 89/36.02 89/36.05



Family:

Publication number	Publication date	Application number	Application date
US8047117 BA	20111101	US20070787095	20070413

Priority:

US20070787095 20070413

Probable Assignee: WRIGHT MATERIALS RESEARCH CO

Assignee(s): (std): WRIGHT MATERIALS RES COMPANY

Assignee(s): WRIGHT MATERIALS RESEARCH CO ; WRIGHT MATERIALS RESEARCH COMPANY

Inventor(s): (std): TAN SENG

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US8047117 BA	20111101	LSGT	+	granted / extensions (spc, cpc, pte)	
US8047117 BA	20070413	LSAS	AS	ASSIGNMENT	OWNER NAME : WRIGHT MATERIALS RESEARCH COMPANY, OHIO DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TAN, SENG; REEL/FRAME:019242/0470 EFFECTIVE DATE : 20070407
US8047117 BA	20151005	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

18) Family number: 52430001 (CN202536259U)

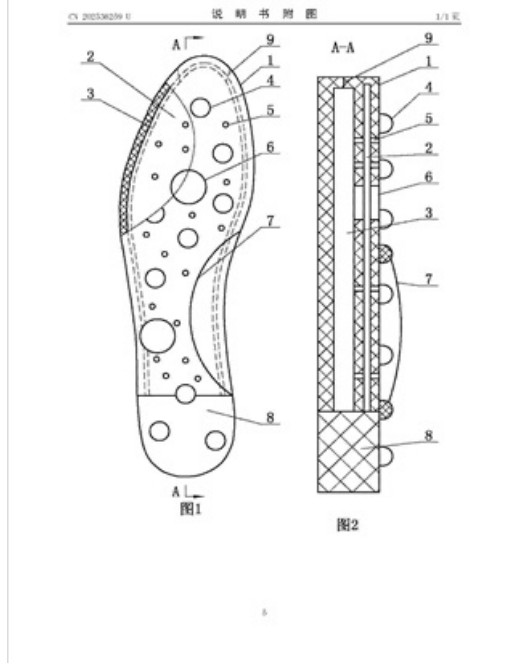
© PatBase

Title: Special insoles for mine boots

Abstract: Source: CN202536259U The utility model discloses a pair of special insoles for mine boots. Each special insole comprises an insole main body, wherein the insole main body is formed by connecting a palm pad and a heel pad, a stone storage cavity is arranged in the palm pad, the side part of the palm pad is provided with a stone discharge opening, the stone discharge opening is communicated with the stone storage cavity, a guide-in through hole is arranged on the upper surface of the palm pad and is communicated with the stone storage cavity, the stone storage cavity is arranged in the palm pad, the upper surface of the palm pad is provided with the guide-in through hole, and macadam or sand entering the mine boot can fall into the stone storage cavity to be temporarily stored through the guide-in through hole. After workers return to the ground, the insoles are taken out, the macadam or sand in the stone storage cavities is discharged out through the stone discharge openings. The pair of special insole is provided with massage heads, the massage heads have the health care massage effect, the foot sole blood circulation is improved, and the work fatigue is relieved. The pair of special insole is also provided with ventilation cavities and exhaust through holes, a water absorption drying layer is arranged in each ventilation cavity, and the foot sole humidity environment can be improved. The pair of special insole provided by the utility model also has the advantages that the structure is simple and compact, the manufacture cost is low, and the use is convenient.

Classifications:

International (IPC 8-9): A43B17/08 A61H39/04 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN202536259 U	20121121	CN201220150409U	20120411

Priority:

CN201220150409U 20120411

Probable Assignee:

HUCHENG ZHANG

Assignee(s): (std):

HUCHENG ZHANG

Assignee(s):

ZHANG HUCHENG

Inventor(s): (std):

HUCHENG ZHANG

Inventor(s):

ZHANG HUCHENG

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN202536259 U	20121121	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202536259 U	20121121	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202536259 U	20140611	LSLE	-C17	CESSATION OF PATENT RIGHT	

19) Family number: 57484879 (CO6990146A)

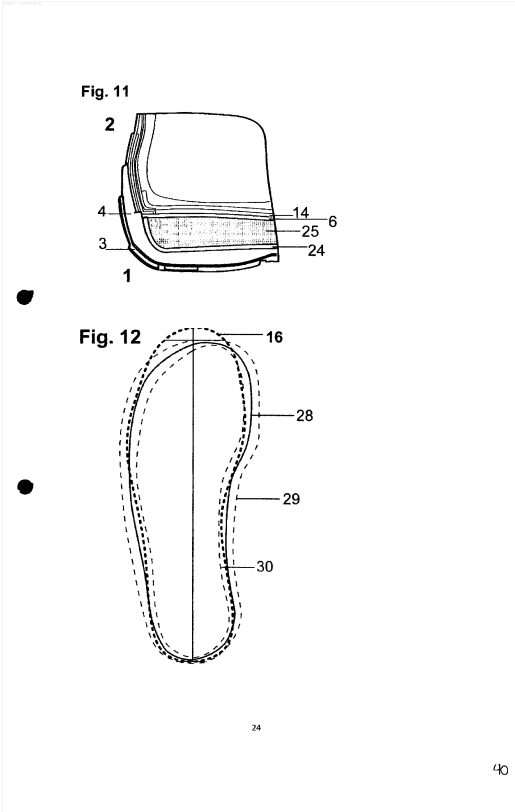
© PatBase

Title: BOTAS ANTIMINAS DE HORMA ESPECIAL MINE LAST SPECIAL BOOTS (Machine translation)

Abstract: Source: CO6990146A La presente patente de Invencion, se refiere a un tipo de calzado especial que pertenece al llamado EPI (Equipo de proteccion individual), desarrollado para el sector militar especializado, dispuesto en la clasificacion del tipo botas antiminas, para ser utilizado en cualquier tipo de terreno y actividad de alto riesgo en combate o fuera de el. Esta propuesta, fue trabajada ademas bajo dos principios especiales, el primero llamado "principio de configuracion de paquetes compactos" y el segundo llamado "principio ergonomico de tallaje", que hace que el resultado sea altamente eficiente con baja complejidad formal y adaptado a nuestra poblacion militar colombiana. En cuanto al principio de configuracion, se trabajo gracias a dos paquetes compactos estructurales, el primero llamado Paquete de seguridad, disenado para resistir el producto de la fuerza equivalente de una explosion de 50 g de TNT de una mina antipersona y dispuesto como suela compleja conformada por cuatro eslabones que combinados generan un bloque de resistencia a una mina anti persona y el segundo llamado Saco de proteccion, disenado como un "guante compacto de capas " para proteger desde la zona del astragalo del pie hasta la altura de la zona media de los peroneos largos, en el momento de la explosion; este "guante" se acompaña a su vez de algunos componentes, que facilitan la postura de manera rapida del calzado y le permiten mejorar la movilidad sin importar las condiciones del terreno. En cuanto al principio ergonomico de tallaje, se trabajo y desarrollo una horma unica y especial ajustada a la poblacion militar colombiana (gracias a la generacion de un sistema de tallaje basado en las mediciones antropometricas y a la curvatura de la planta del pie de la poblacion militar colombiana, teniendo en cuenta criterios de comodidad, factores humanos y diseno de las hormas para cada tallaje. (Ver figura 1) This patent refers to a special type of shoe that belongs to the so-called PPE (personal protective equipment), developed for specialized military, provisions of the anti-mine boots type classification, to be used in any terrain and high-risk activity in combat or outside of it. This proposal was worked also on two special principles, the first "principle configuration of compact packages" and the second called "ergonomic principle sizing," which makes the result is highly efficient with low formal complexity and adapted to our population Colombian military, As for the principle of settings, thanks to two structural compact packages was working, the first called security package, designed to withstand the product of the equivalent force of an explosion of 50 g of TNT in a landmine and arranged as outsole complex made up of four links that combined generate a block of resistance to anti-personnel mine and the second call protection bag, designed as a "compact layers glove" to protect from the area of talus foot to the height of the area Average long peroneal, at the time of the explosion; this "glove" is accompanied in turn of some components, which facilitate fast posture footwear fashion and allow you to improve mobility regardless of ground conditions. As for the principle of sizing ergonomic, work and development is a unique and special form adjusted to the Colombian military population (thanks to the generation of a sizing system based on

the anthropometric measurements and curvature of the sole Colombian military population, taking into account standards of comfort, human factors and design of the molds for each size. (see Figure 1)

Classifications:
International (IPC 8-9): A43B3/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CO6990146 A1	20140710	CO20120235686	20121228

Priority:
CO20120235686 20121228

Probable Assignee: IND MILITAR INDUMIL

Assignee(s): (std): IND MILITAR INDUMIL

Assignee(s): INDUSTRIA MILITAR INDUMIL

Inventor(s): (std): AYALA GARCIA CAMILO ; MARANON LEON EDGAR ALEJANDRO

Inventor(s): CAMILO AYALA GARCIA ; DIEGO ALEJANDRO NUNEZ VALLEJOS ; EDGAR ALEJANDRO MARANON LEON ; FRANCISCO JAVIER HERRAN MARTINEZ ; JORGE ALBERTO GONZALEZ SANCHEZ ; JUAN CAMILO CALLE MURILLO ; JUAN PABLO CASAS RODRIGUEZ ; LAURA LUCIA PEREZ SANDOVAL ; LUIS MARIO MATEUS SANDOVAL

Agent(s): DIEGO MUNOZ MARROQUIN

Legal status (INPADOC)
[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CO6990146 A1	20140710	LSPB	+	published / reissued	

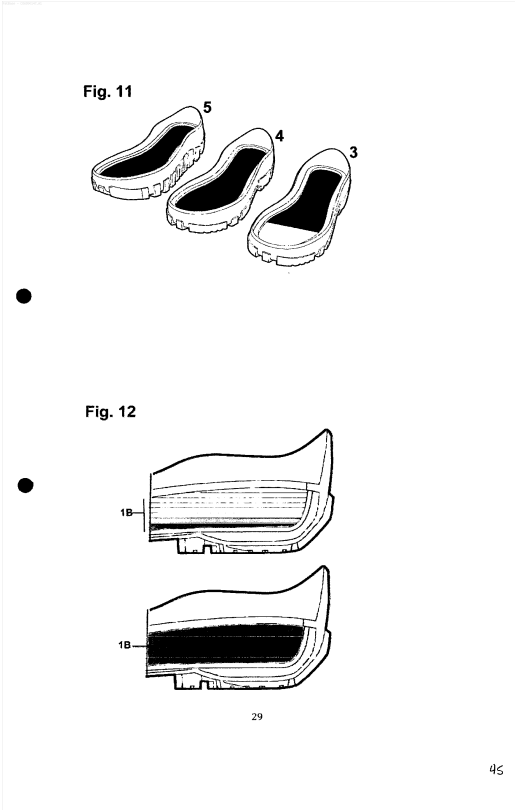
20) Family number: 57484881 (CO6990147A) © PatBase

Title: SUELA ANTIMINAS MULTIFUNCIONALES SOLE MINE MULTIFUNCIONALES (Machine translation)

Abstract: Source: CO6990147A El diseno que se presenta para registro de patente de invencion, ha sido concebido como unas suelas antiminas, capaces de adaptarse a diferentes tipos de calzado de miembros de la fuerza publica, en tres actividades distintas, (la primera llamada de patrullaje para soldados profesionales que llevan a cabo caminatas y recorridos largos en todo tipo de con textos, la segunda llamada de fuerzas especiales, para la manipulacion y manejo de explosivos y demoliciones y una tercera llamada de desminado, llevada a cabo por expertos antiexplosivos); cuya adaptabilidad se logra gracias a tres modificaciones estructurales, logradas por variacion de la medida interna de las suelas durante el proceso de produccion, que permiten acomodar un material poroso de densidad variable de resistencia a la explosion de minas antipersona, en equivalentes de resistencia de 50 g de TNT (para la primera actividad), 70 g de TNT (para la segunda actividad) y 100 g de TNT para la tercera actividad); siempre y cuando la energia transmitida al usuario por efecto de la explosion, nunca sea superior a los 12J. Lo anterior se logra gracias a que el par de suelas antiminas estan conformadas por dos grupos de estructuras fundamentales; el primero llamado Grupo de componentes de Cavidad en y antiminas, que es el resultado de la relacion de una cuna de proteccion y un material poroso de densidad variable. Un segundo grupo de componentes llamado Grupo de componentes de contextualizacion, que es la relacion de dos elementos estructurales funcionales llamados; capsula de contextualizacion grabada y el segundo llamado bloque poroso embebido. (Ver figura 1) The design presented for registration of a patent, has been conceived as a mine soles, able to adapt to different types of footwear members of the public force, in three different activities, (the first call patrol for professional soldiers who carry out walks and long runs in all kinds of texts, the second call of special forces for the manipulation and handling of explosives and demolitions and a third call demining conducted by explosives experts); whose adaptability through three structural changes, achieved by varying the internal measure of the soles during the production process, which hold a porous material of varying

density resistance to the explosion of landmines, equivalent resistor 50 is achieved g of TNT (for the first activity), 70 g of TNT (for the second activity) and 100 g of TNT for the third activity); provided the energy transmitted to the user as a result of the explosion, never be more than 12J. This is achieved thanks to the pair of mine soles are made up of two groups of fundamental structures; the first group of components called Cavity in and mine, which is the result of the relationship of a cradle of protection and a porous material of varying density. A second group of components called Group of components contextualization, which is the ratio of two functional structural elements called; contextualization capsule taped and the second called embedded porous block. (see Figure 1)

Classifications:
International (IPC 8-9): A43B13/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CO6990147 A1	20140710	CO20120235690	20121228

Priority:
CO20120235690 20121228

Probable Assignee: IND MILITAR INDUMIL

Assignee(s): (std): IND MILITAR INDUMIL

Assignee(s): INDUSTRIA MILITAR INDUMIL

Inventor(s): (std): MARANON LEON EDGAR ALEJANDRO ; AYALA GARCIA CAMILO

Inventor(s): CAMILO AYALA GARCIA ; EDGAR ALEJANDRO MARANON LEON ; LUIS MARIO MATEUS SANDOVAL ; JUAN PABLO CASAS RODRIGUEZ ; JUAN CAMILO CALLE MURILLO ; JOSE ADRIAN HOYOS URIBE ; JORGE ALBERTO GONZALEZ SANCHEZ ; FRANCISCO JAVIER HERRAN MARTINEZ ; DIEGO ALEJANDRO NUNEZ VALLEJOS

Agent(s): DIEGO MUNOZ MARROQUIN

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CO6990147 A1	20140710	LSPB	+	published / reissued	

21) Family number: 58184605 (KR101478005B) © PatBase

Title: SAFE SHOES FOR A MINE FOR SECURING BATTLE SHOES ONTO THE SAFE SHOES

Abstract: Source: KR101478005B The present invention relates to ?safety overshoes of military shoes for an antipersonnel mine having improved adhesion to military shoes?, which are capable of preventing a heel of the military shoes from being separated from the safety overshoes while walking on a slope or a ramp. In a first embodiment of the present invention, the safety overshoes, into which military shoes for an antipersonnel mine are inserted, include an intermediate coupling member having a shape that can be complementarily coupled to the first uneven part formed on a sole of the military shoes for an antipersonnel mine having the predetermined shaped sole, wherein the intermediate coupling member includes a second uneven part inserted into and seated on an inner side of the safety overshoes, to which the military shoes for an antipersonnel mine are inserted, and closely coupled and complementarily correspond to the first uneven part. In the present invention, when the military shoes for an antipersonnel mine are seated on the intermediate coupling member closely coupled to the sole of the military shoes for an antipersonnel mine, and then a user walks on a slope in a state such that the military shoes are inserted into the safety overshoes, a phenomenon that the heel of the military shoes for an antipersonnel mine is separated from the safety overshoes can be reduced, to thereby prevent safety accident in advance.

Classifications:
International (IPC 8-9): A43B3/00 A43B3/16 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
KR101478005 B1	20150102	KR20140025704	20140304

Priority:

KR20140025704 20140304

Probable Assignee:	IK SAN HITEC CO LTD
Assignee(s): (std):	IK SAN HITEC CO LTD
Assignee(s):	IK SAN HITEC CO
Inventor(s): (std):	CHOI GWI NAM

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
KR101478005 B1	20150102	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101478005 B1	20141211	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101478005 B1	20141223	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101478005 B1	20141224	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

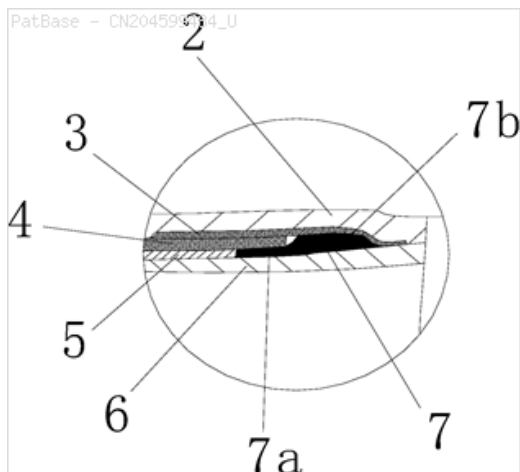
22) Family number: 60258025 (CN204599484U) © PatBase

Title: TOES PROTECTION HIGH RUBBER OVERSHOES THAT SPECIAL OPERATION ENVIRONMENT USED DOWN

Abstract: Source: CN204599484U The utility model discloses a toes protection high rubber overshoes that special operation environment used down, including the boots at the bottom of and the vamp, the vamp includes the boots nexine and glues the surface course, the boots head of high rubber overshoes be provided with be used for protecting the protection baotou of toes and protect baotou set up in the boots nexine with glue between the surface course, the kou yanchu in protection baotou is provided with and is used for reducing protection baotou and glues the surface course drop and prevent to protect baotou mouth along the transition strip of damage instep, protection baotou is provided with the reinforcement strip with the outside of transition combination department, adopting the transition strip to reduce protection baotou through protection baotou bead binding site and making it smooth transition with a drop of gluing between the surface course, reduce and the mass defect that has reduced the stress concentration that produces when using and instep portion avoid the damage assaulting and rub and bring, stick on the reinforcement strip and can prevent that the bead position from gluing the adhesive strength that surface course fracture and reinforcing were glued the surface course and was protected baotou between transition strip and protection baotou, prevent that toes are not harmed by external force to waterproof performance is good, long service life.

Classifications:

International (IPC 8-9): A43B23/08 A43B7/12 A43B7/14 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204599484 U	20150902	CN201520239043U	20150420

Priority:

CN201520239043U 20150420

Probable Assignee: JIHUA 3539 SHOES CO LTD

Assignee(s): (std): JIHUA 3539 SHOES CO LTD

Assignee(s): JIHUA THREE THOUSAND FIVE HUNDRED THIRTY NINE FOOTWEAR LTD ; JIHUA 3539 SHOES CO

Inventor(s): (std): HUANG WUGUO ; JIA SENHU

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN204599484 U	20150902	LSGT	+	granted / extensions (spc, cpc, pte)	
CN204599484 U	20150902	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

23) Family number: 60480977 (CN204763622U)

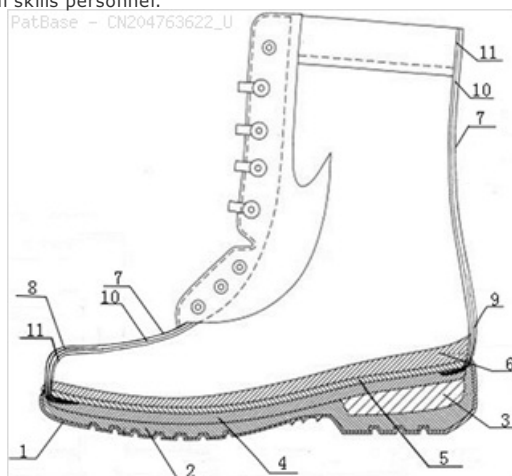
© PatBase

Title: MULTI -FUNCTIONAL LIGHTNING PROTECTION, EXPLOSION -PROOF BOOTS

Abstract: Source: CN204763622U The utility model discloses a multi -functional lightning protection, explosion -proof boots, upper of a shoe and sole that it was made including the integrative vamp that meets, sole from bottom to top be in proper order for in compound bottom of real glue film, bipeltate layer, aramid fiber composite bed and the aramid fiber of excelling in, and vamp outside -in be waterproof face skin layer, aramid fiber composite bed and dacron composite bed in proper order, this boots quality gently, lightning protection, explosion -proof, waterproof and fire behaviour have, the staff wears lightly comfortably. The utility model is suitable for a preparation of lightning protection, explosion -proof boots, shoemaking boots further are applied to the clearance engineer, are arranged and explode the open -air and special environment dress of expert, fire control and job that requires special skills personnel.

Classifications:

International (IPC 8-9): A43B13/12 A43B13/42 A43B23/02
A43B23/08 A43B3/00 A43D11/00 A43D11/12 A43D8/02
B29D35/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN104939423 A	20150930	CN201510370900	20150630
CN104939423 B	20160824	CN201510370900	20150630
CN204763622 U	20151118	CN201520457476U	20150630

Priority:

CN201510370900 20150630

CN201520457476U 20150630

Probable Assignee: JIHUA 3514 LEATHER AND FOOTWARE CO LTD

Assignee(s): (std): JIHUA 3514 LEATHER AND FOOTWARE CO LTD

Assignee(s): JIHUA THREE THOUSAND FIVE HUNDRED FOURTEEN LEATHER FOOTWEAR LTD ; JIHUA 3514 LEATHER AND FOOTWARE CO

Inventor(s): (std): WANG XIAODI

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN104939423 A	20150930	LSPB	+	published / reissued	
CN104939423 A	20150930	LSPB	+C06	PUBLICATION	
CN104939423 A	20160824	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN104939423 B	20160824	LSGT	+	granted / extensions (spc, cpc, pte)	
CN204763622 U	20151118	LSGT	+	granted / extensions (spc, cpc, pte)	
CN204763622 U	20151118	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	