

432 Documents

Publication numbers	Title	Current assignees
WO201908428 A1	System for quickly replacing heel tops	RESTREPO CASTANO RODRIGO
GB8427449 D0	Footwear components	PARSONS R B
US4363177 A	Style convertible footwear	BOROS LESLIE A
US6631570 B1	Rotationally detachable low to high heel shoes	WALKER LISA
EP-314411 A2	Shoe with exchangeable heel.	T GAL ENTERPRISES
KR20180105776 A	An auxiliary heel for heel of shoe	LIM, JEONG DO, ...
GB201413191 D0	Changeable, removable, and sliding heels	NNENE CHUKWUEMEKA OKWUDILI
FR2869768 A1	Shoe for sports and festival occasion, has sole on which fixed heel is integrated, removable heel with outer end sliding in cavity of fixed heel, and open and rotating ring placed around fixed heel to avoid dislocation of heels	MORDANT HELENE, ...
KR101890349 B1	Shoe capable of attaching/detaching heel	CHOE HAN
FR3062035 A1	DEVICE FOR FIXING A REMOVABLE INTERCHANGEABLE HEELS FOR SHOES	CHERIF CHEIKH MARGAUX
KR101375521 B1	Shoe which is easily separated and combined of heel	H & J HEEL, ...
KR20180115405 A	.Easy to change design shoes heel.	KIM, CHUL
WO2018152607 A1	Improvement to a shoe with an interchangeable heel	ROBERTO STIEFELMANN, ...
WO201559442 A1	Footwear with interchangeable heels	BARRY OUMOU HAWA
WO201698352 A1	Shoe heel	NEW WORLD
US6050002 A	Athletic shoe with improved sole	AKEVA
WO2013178842 A1	Supporting element for heels	LLELLE ACCESORIOS
US20140259803 A1	High heel tip covering device and related methods	REARDON REBECCA
WO201339805 A1	Shoe having removable and interchangeable heel assemblies with kit	BARBARA JAY S
KR200428437U Y1	Out-sole having divisible heel of a shoe	LEE, TAE-SUNG
EP1871190 A1	Adjustable height high heel shoe	CAMILEON HOLDINGS
FR2980080 A3	Double height heel for sole of shoe for woman, for use during e.g. ceremony, has fixing unit for fixing removable and fixed parts in interlocking position, where removable part forms extension or complement height of fixed part	GUTIERREZ MARTIN FRANCISCA
WO201105033 A2	Height-adjustable shoe heel	YUN MYEONG EON
EP3177167 A1	Detachable shoe heel and shoe designed to receive such a heel	BRUNONE CELINE, ...
EP--56278 A2	Coatable shoe-heel and top piece therefor	SCHALPER LEOPOLD, ...

Publication numbers	Title	Current assignees
KR20120135592 A	Removable wedge hill	JANG, MYUNG-HO
WO2015128530 A1	Shoe with replaceable parts	CANIZARES VERDETE JUAN JOSE, ...
KR20130004652 A	Removable elastic heel and high-heeled shoes with the same capable of improving user convenience	JANG, MYUNG-HO
KR20170119800 A	An auxiliary heel for heel of shoe	LIM, JEONG DO
GB2076632 A	Fastening footwear heel top pieces	ABBEEY PLASTICS
FR-712860 A	Removable heel	
FR-991555 A	Removable heel pad for of shoe heels, boots, etc.	
EP2412261 A1	Shoe, in particular ladies shoe, and heel cover for a shoe	MUELLER ANDREAS
DE102013215964 A1	Interchangeable shoe heel height-adjustable	DOGU EROL
KR20120057471 A	Replaceable heel capable of easily replacing heels whenever and wherever without using any tool	LI, YU MI
KR200400105U Y1	Shoes with a removable back hoof	JANG, YUN GYEONG
US4214384 A	Replaceable heel construction for shoes	RICARDO GONZALEZ R
DE102011103575 A1	Replaceable heal lift structure for heel of shoe, has security device that is provided with attachment screw that is provided with prevention unit for preventing unintentional removal of screw	LEIBER HEINZ, ...
EP2422637 A1	Attachment system for tips to shoe heels	ORTUNO SANTA PEDRO
KR20130010197 A	Climbing boots,s bottom-pad use for absorbed shock of sloping road	JOUNG, HA KIL
FR-911124 A	Improvements to removable heels for shoes	
KR101009578 B1	High heel with easily changeable shock absorber	GO, JONG-TAEK
CN107224032 A	Shoe with replaceable shoe heel	HEFEI ZHUMENGYI CLOTHING TRADE
WO200867775 A1	Shoe with removable high heel	WANG XINGMIN
FR-874823 A	Heel pad or removable protective plate for heels	PATENTEXPLOATERING & JOHANSSON
CN107259708 A	Shoes with telescopic heels	HEFEI ZHUMENGYI CLOTHING TRADE
KR20110048770 A	Sub heel of shoe heel	KIM, TAE-SOO
KR20100011831U U	Assistance shoes heel	JANG, KUN CHAI, ...
DE7625868 U1		BULLINGER LUDWIG, ...
WO2016102173 A1	Interchangeable shoe heel	CATLIN LIBER
KR200390123U Y1	Heel for women's shoes	ParkHoGil
FR1062807 A	Fixing device, on shoes, of interchangeable heels of different heights	
CN106723655 A	Elastic component driving clamping buckle type high-heeled	HANGZHOU JIUBAHONGTU

Publication numbers	Title	Current assignees
	shoe with replaceable shoe heel	TECHNOLOGY
CN106617492 A	Heel and shoe	GUANGDONG POLYTECHNIC NORMAL UNIVERSITY
CN105852322 A	Key type heel changing high-heeled shoes	HANGZHOU JIUBAHONGTU TECHNOLOGY
DE202011101570 U1	Interchangeable Heel	LEIBER HEINZ, ...
KR20120110443 A	The shoes having a heel having the other elastic force and exchang	NANUX
KR200452015U Y1	High heel being easy to change hoof	Byun Hak Ju
US5596819 A	Replaceable shoe heel spring and stabilizer	CONGRESS FINANCIAL
DE7730722 U1		KROME ERICH 4690 HERNE
FR1328796 A	Improvement to the heels of the shoes from ladies metal	
FR-880289 A	Interchangeable shoe for walking of shoe heels	
KR101868089 B1	Withdrawal type shoes capable of adjusting heel height	CHOE HAN
US20160235163 A1	Shoe heel cover and kit	SHOENIQUE DESIGNS
CN105661752 A	Heel with adjustable height	ZHEJIANG KAJIALI SHOES INDUSTRY
US20190200705 A1	Retractable high heel for shoes	ALEXANDER ISINHUE
KR20130001605 A	Replaceable heel capable of being easily exchanged	Kim, Mi - Sook
KR20100003133U U	Shoes change heel	KIM, YONG-KEUN
KR20090001578U U	The heel of shoes with separating function	HAN, BO HO
FR-703635 A	Shoe heel	
FR-959037 A		
WO2007126300 A1	Shoes having height controllable heel	KIM YOUNG-JIN, ...
KR19980006317U U	Outer sole of shoes	TVAS
KR200479186U Y1	Shoes of replaceable heel type	SHIN, SOON KYUN
DE8806258 U1		SEIBEL BENNO 6783 DAHN
DE8615811 U1		KALLAY STEFAN 6078 NEU ISENBURG
DE8019195 U1		BAYER HANS JOACHIM 6350 BAD NAUHEIM
DE2742138 A1	Replacement shoe heel tread - is fixed to top heel part of shoe, and has protuberances round edge fitting into cavities on shoe	JANZEN HARALD
FR1494829 A	Shoe heel to under-end replaceable	
KR20160000268U U	Replaceable heel women shoes with spikes through	KIM, SEUNG HYEOK
EP2247211 A1	Device for protecting heels	HEELDICE

Publication numbers	Title	Current assignees
KR20090083031 A	Heel shoe including detachable subheel	KO, YOUNG-SIK
DE3027055 A1	Heel tip attachment for high heeled shoe - consists of expander sleeved pin inserted into tension sleeve, with slits	BAYER HANS JOACHIM
FR1409019 A	Improvements to ladies high heel shoes to	CROWN ENTPR
DE102010043214 A1	Variable heel for lady shoe, has coupling element engaging in heel elements when heel elements are in engagement, and fixed with safety element i.e. bolt head, at both ends against displacement relative to heel elements	GRZENIA VIOLETTA, ...
EP3338583 A1	Shoes having reinforcing structure for heel	GAO ZHONGZE, ...
EP1282371 A1	Shoes	KIT SHOE
EP2991522 A1	Shoe with a removable interchangeable heel and variable curvature	IMP SHOES
WO2019129938 A1	Device for attaching interchangeable heels for shoes with two springs	CHERIF CHEIKH MARGAUX
EP3267829 A1	Shoe provided with removable soles	FEMMES TOUT TERRAIN
CN109171099 A	Heel-exchangeable high-heeled shoe	WENZHOU ZHISHANG ART DESIGN
WO200737767 A1	Method and apparatus for extensible heel	GUEH HOW KIAP
CN109288195 A	High-heeled shoe with adjustable heel height	LIU GUANGYOU
CN107898051 A	High-heeled shoes changeable in shoe type	NI WEIYONG
US20080134542 A1	Shoe heel structure	SHIH WEN-TONG
WO2007124534 A1	Shoe heel support device	SAMANTHA JAGGER
EP3342302 A1	Sole part	FLEXHEEL
EP-714246 A1	Athletic shoe with improved sole	AKEVA
EP-303627 A1	Detachable heel with elastic fixing means	VIVIER HARRY
EP3427602 A1	Fully convertible high heel-to-flat shoe	PASHION FOOTWEAR
WO2013151845 A1	Collapsible shoe and replaceable straps and methods for making and using same	CLIC LIFESTYLE
EP1603419 A2	Rapid assembly device particularly applicable to shoes with fixed heels	CIUCA DOMINIQUE, ...
KR20130050697 A	High heeled shoes	JINSUNG ENGINEERING
EP2474245 A1	Shoe with interchangeable heel	TAC REVOLUTION
KR101019153 B1	Shoes for absorbing shock	GO, JONG-TAEK
EP2862466 A1	Removable wedge heel and method for setting same	JANG MYOUNG HO, ...
EP2074900 A1	Exchangeable heel, shoe sole component and shoe	STEINER MICHAEL MAG
EP2814352 A1	Convertible shoe	Sarah Melissa Mulholland
US20040049943 A1	Removable heel cushion	GLICKSMAN MILTON
EP2627207 A2	Suspension heel	TBL LICENSING

Publication numbers	Title	Current assignees
GB8417678 D0	Top piece for ladies' heels	GARNAR BOOTH
EP2734074 A1	Multiple height shoe	CONCEPT FOOTWEAR SOLUTIONS
EP2434918 A1	Sports shoe of the cleated type	BRITEL MOUNA, ...
KR20170092774 A	Article of footwear capable of adjusting heel height	HOSEO UNIVERSITY ACADEMIC COOPERATION FOUNDATION
WO2010147352 A2	High heel shoe having foldable heel	YOON KEUN SOO, ...
GB201118019 D0	Heel cover with enlarged base	SMITH GRAHAM
WO201247059 A2	Shoe for attenuating impact	GO JONG TAEK
EP2471398 A1	Heel of a skate with insert	ROSSIGNOL LANGE
FR2522254 A1	INSOLE FOR SHOE EQUIPPED WITH A REMOVABLE HEEL	MUSCI FLLI
WO201254981 A2	Replaceable footwear sole and heel	HAMPSON KATHRYN MARY
WO2007105064 A2	Overshoe structure and shoe structure to be associated with said overshoe	QUARANTA ELISABETTA
US20160081425 A1	Footwear with dynamic arch system	PIONTKOWSKI SHARONE, ...
GB200514388 D0	Stiletto heel protectors	LASOTA ANDREW STANLEY
KR20170004417U U	Safety cover for shoes having heating function and shoes having safety cover	REPUBLIC OF KOREA
EP2793633 A1	Footwear with interchangeable heel components	ONE CLICK, ...
EP--68056 A1	Heel, in particular for women's shoes.	POLYPLASTIFORM
EP2858524 A1	Reconfigurable shoe	SIEFERT JUSTIN, ...
WO201325638 A2	Heel protector	GOGO HEEL
EP2496103 A2	Dance shoe and method of manufacture thereof	CAMPBELL CHRISTINE
EP2348911 A2	Multipurpose boot	LEPOUR CHANTAL, ...
GB200424968 D0	Detachable heels with shock absorbing means for footwear	OKWAUOSA NONSO
GB2069314 A	Heels units	DELTA MOULDINGS
EP3434133 A1	Convertible high-heel shoe	CHIANG TSUNG JU
DE202015006795 U1	Shoe heel shoe heel to change a lock	VON HAGEN EWALD
WO2012163785 A2	Exchangeable shoe heel and heel tip	LEIBER HEINZ, ...
WO201580301 A1	Fashionable cushion accessory for high heel shoes	JANG MYOUNG HO
WO201637406 A1	Shoe provided with detachable heel	DONGGUAN CHISHING MANUFACTURING
DE202014002253 U1	Shoe, cone -, with a vertically adjustable shelf	GASSMANN JASMIN
CN108813799 A	Liftable detachable high-heeled shoe	LIU LUOFA

Publication numbers	Title	Current assignees
KR20140044519 A	Fashionable cushion accessory for high heel shoes	JANG, MYUNG-HO
DE202012103401 U1	Interchangeable Shoe Heel	LEIBER HEINZ
WO201110807 A2	Dual impact absorbing shoe having easily replaceable heel	KIM DEOK KI, ...
FR1260513 A	Shoe heel	
CN109008059 A	Detachable high-heeled shoe capable of sensing foot pressure	QUANZHOU NORMAL UNIVERSITY
US20170143072 A1	Sports shoe with studs	GUER JEAN LUC
US4400893 A	Shoe with removably-mounted heel	FRATELL MUSCI, ...
US20180184752 A1	Replaceable sleeve system for shoe	THEISEN JOSEPH P, ...
WO2016115540 A1	Method of decoration shoes and decorated shoes	CHAMBERLAIN KARYN
CN108634472 A	Dual-purpose slippers suitable for indoor and outdoor wearing	QUANZHOU BAOFENG SHOES
KR20110103619 A	Shock-absorbing shoe	GO, JONG-TAEK
WO2008109651 A1	Footwear with removable midsole having projections	NIKE
CN106820420 A	Shoes with replaceable heels	MAOTAI SOLES
KR20150088451 A	Accessory for high-heeled shoes and method for manufacturing same	JANG, MYUNG-HO
KR20120007921 A	Shoes	Lee, Jung - Sun
KR100975053 B1	Shock-absorbing high-heeled shoes for height control capable of absorbing shock in two stages	GO, JONG-TAEK
US20180295938 A1	Heel tip cushion with anchoring mechanism inside heel stem	YANGAS ANGELA M
CN108236161 A	Heel-replaceable shoe with door-shaped heel pin	XIAO SHUNCAI
WO200437029 A1	Interchangeable footwear comprising multiple shoe inserts	SANTA ANA ROLAND C
WO2014198257 A1	Shoe and shoe set	BUSSAT MARKO
KR20100105952 A	Footwear capable of position change of a normal pad and a worn pad	PARK, JI YEON
DE202008014156 U1	Shoe or boot-section	KIEFER CHRISTIAN
KR100745137 B1	The shoes having a heel having the other elastic force and abrasion resistance	AHN, KWANG WOO
CN107173915 A	Serviceable heels with high abrasion resistance	LI XIN
EP2976959 A1	Method of locking spiked shoes using effect of inertia	HUANG YING CHUN
KR20110007108U U	High helled Sole	LEE, KYOUNG, ...
KR200444077U Y1	Support equipment for shoe	LEE, SSANG YONG
US3822709 A	Shoe having heel with replaceable insert member	GRUNER M
FR1256039 A	Heel, in particular of woman shoes, as well as the shoes fitted with this similar heel	
CA2919456 A1	High heel shoe with detachable heel components	GORDON CARL O
CN106213670 A	Healthcare shoes	PING HONGYING

Publication numbers	Title	Current assignees
CN106213659 A	High-vent-ability sandal	PING HONGYING
WO2017166892 A1	Detachable connection assembly and shoes using detachable connecting assembly	LI HONG
KR20090035679 A	Hobnail for high-heeled shoes including a bottom sole cover made of tough and elastic rubber	CHOI, JI HYE
KR20090007256 A	Bottom sole cover for the high-heeled shoes, which is detachably installed at the bottom sole	CHOI, JI HYE
DE102004017113 A1	Modular shoe system for manufacturing complete shoe e.g. ladies shoe, has additional function unit designed as heel unit that has recess into which portion of retaining unit is inserted for connecting recess and retaining unit	NAJIPOUR FARIBA
FR2750881 A1	Boot to adjust angular height of foot	SALOMON
DE3437024 A1	Heel protector for men's, ladies' and children's shoes	KUEHNRIK GISELA
CN106307784 A	Multifunctional sandal	PING HONGYING
US20010052195 A1	Convertible shoe ensemble	BLAKEY COLLEEN BANKS
US6023858 A	Two-piece shoe bottom system	REFLECTIONS SHOE
CN109349727 A	Universal waterproof shoe cover for male and female shoes	WUHU ZHENMA INFORMATION TECHNOLOGY
WO2018131548 A1	Shoe heel cover	TAKAHISA TSUTOMU
WO2019101025 A1	Shoe with adjustable and replaceable heel	ZHANG LIEPING
DE102010020686 A1	Interchangeable heel for women shoes, is designed to be interchanged with pin-spring system as supporting heel, where ground level of front shoe is reached for different heel heights due to different curvature of heel	MAREK CLAUS-PETER
EP-952777 A1	Shoe sole with removal insert	BATA
US3299542 A	Shoe heel with exchangeable tread part	KNUT HERBERT NYLUND
EP-573717 A1	Shoe lift construction.	HIRAKI
CN201219558U Y	Sliding sheet type dismountable heels	LIAN BIN
JP07009108U U	Heel cover Shoe	MADISON AVENUE
CN205180534U U	Dismountable high -heeled shoes heel that is difficult for droing	GUANGZHOU YAMI TRADE
CN201591178U U	Detachable heel of shoe	LUO JIANBO
CN205072210U U	High -heeled shoes with trigger switch	GUANGZHOU YAMI TRADE
WO2018204079 A1	Compact shoe comfort device	ARGUETA MORALES MELISSA MARICELA, ...
CN201219561U Y	Shoes with sliding sheet type dismountable heels	LIAN BIN
CN203841191U U	Multifunctional shoe	XDLONG
CN208550186U U	Simple and easy type detachable shoes heel formula high -	HANGZHOU JIUBAHONGTU

Publication numbers	Title	Current assignees
	heeled shoes	TECHNOLOGY
WO2009139788 A1	Stabilizing and support accessory for stiletto heels	SOLEMATES
CN203735565U U	High-heeled shoe heel with variable height	SUN XITONG
US20100186265 A1	Removable heel pad for foot-receiving device	NIKE
DE102015016567 A1	Shoe-shoulder closure for alternate of a shoe heel	HAGEN EWALD VON, ...
CN203897446U U	Novel shoes capable of replacing heels	SUZHOU HAISHENDA MACHINERY TECHNOLOGY
CN207070922U U	High -heeled shoes with detachable heel	DONGGUAN TERUI HARDWARE PLASTIC PRODUCT
JP2017189442 A	Footwear	BEAUTY & OBLIGE
CN104172646 A	Shoes with detachable heels	DONGGUAN CHISHING MANUFACTURING
CN202959054U U	Shoe capable of adjusting height of heelpiece	GAO JIYE
JP05065202U U	Heel of dance shoe cover	AKUI HIROSHI
CN204091126U U	Health care high-heeled shoe with adjustable shoe heel	ZIHAN TECHNOLOGY
KR20110009320U U	Shoes having damping element	GO, JONG-TAEK
CN104106867 A	Transformable shoe and use method thereof	HE DIAN
CN203446697U U	Shoe sole with function of prolonging service life	WENZHOU ZHENGUANG SHOES MATERIAL
EP2645895 A1	Athletic shoe having cleats	GUER JEAN LUC, ...
CN203467800U U	Shoe sole capable of adjusting height of heel	NANJING COLLEGE OF CHEMICAL TECHNOLOGY
CN202774405U U	Variable-sole height damp-proof shoes	ZHOU SHUANG
CN201204991U Y	Shoes with removable sole	DENG ZHIQIANG
CN201051904U Y	Detachable changeable type heel	CHU BENHUI
KR100693282 B1	Shoes with replaceable heel	LEE, CHUL JANG, ...
CN208228445U U	Trade with shoes with door type is with round pin	XIAO SHUNCAI
CN201563735U U	Shoe capable of replacing wear resistance layer	ZHANG LIANGCHEN
CN2110391U U	Changeable shoe heels	XIA ZHIQIANG
CN207653689U U	Novel at bottom of folding high -heeled shoes of heel	FUJIAN ZHIMING SHOE INDUSTRY
CN206150577U U	Cool sports shoes dispels heat	SHEN YAHENG
CN103767244 A	High-low heel capable of being replaced at will	SHANDONG GOLDKING ELECTRICAL APPLIANCES
CN202874003U U	Heel capable of being connected and detached	SHANDONG GOLDKING ELECTRICAL APPLIANCES
WO201423784 A1	Exchangeable heel for a shoe	LEIBER HEINZ, ...

Publication numbers	Title	Current assignees
CN1778219 A	Dismounted and replaceable heels	CHU BENHUI
JP2004337643 A	Heel of woman's shoes	ASICS
US20020020079 A1	Structure for attaching and detaching attachment to/from shoe sole	YUGEN KAISHA SATO SEISAKUSHO, ...
KR19960010491U Y1	Shoe	CHOI, JEONG SIK
CN208228459U U	Adjustable heel high -heeled shoes	SHAOXING VOCATIONAL & TECHNICAL COLLEGE
CN107536172 A	Detachable device of high-heeled shoe	CEN WENBAO
CN206197215U U	Detachable shoes heel connector device	HE DIAN
CN202890715U U	Shoe heel with changeable heel piece	WENZHOU VOCATIONAL & TECHNICAL COLLEGE
CN201986817U U	Folding shoe with adjustable heel height	FOSHAN SATURDAY SHOES
EP2320763 A1	A shoe heel support device	NAISMITH BEELEY ILDE
CN207070921U U	High -heeled shoes with detachable waterproof platform	DONGGUAN TERUI HARDWARE PLASTIC PRODUCT
CN206043602U U	Detachable shoes heel's high -heeled shoes	ZHUHAI YUTIAN INVESTMENT
CN205456479U U	Soles	START
CN204363099U U	Heel-replaceable shoe	HE GUANCHANG
CN203884850U U	Boots with replaceable heels	HANGZHOU TONGYUN SHOES
CN202364916U U	Shoes with changeable heels	ZHEJIANG SCI-TECH UNIVERSITY
CN101411552 A	Leather shoes with heel non-hypotenuse	GAO SHUNQUAN
EP1946665 A1	Dismantlable shoe	NATALIE ODNIES HAGGER
CN204273418U U	High-heeled shoe with changeable heel height	YANG XIN
CN203814684U U	Convenient mountaineering shoe	HENGYANG NORMAL UNIVERSITY
CN203152679U U	Woman high-heeled shoe with detachable heel tip	WENZHOU HEYU SHOE MATERIALS
CN202456752U U	Movable pad high-heeled shoes	YANG XIAOZHI
JP2013081710 A	Heel member and footwear provided with the same	WACOAL
CN102068083 A	Detachable heelpiece	WUJIANG DONGTA SHOES
CN102113733 A	Health-care high-heeled shoes	ZHANG LIPING
CN201550702U U	Shoe	ZHANG LIANGCHEN
KR20110053140 A	The multi-functional shoes	KIM, HYEON-HWA
CN2110390U U	Woman deformable high-heels	LI XIAOXIAN

Publication numbers	Title	Current assignees
CN205993747U U	Convenient heel device of changing	CENG SHUIYOU
CN203860555U U	Latin shoes	WENZHOU UNIVERSITY
CN202664434U U	Double-layer changeable sole	LEI ZHAOXIONG
WO201311204 A2	Sole which is adjustable back and forth for shoes and the like	MUSCOCEA ANGHEL
DE202011102013 U1	Shoe heel shoe variable	GRZENIA VIOLETTA, ...
CN202014663U U	Multipurpose lady shoe	LUAN MENGYUN, ...
DE102008017674 A1	Shoe structure for shoe, has exchangeable heel, which is connected and stabilized with shoe sole by two mechanisms, and non round stud is provided, which is mounted at shoe bottom	DZIENIEWICZ PETER, ...
CN101171985 A	Men's footwear heel and bottom surface replacing device	CHEN BING
CN200944882U Y	Coattail type movable sole	ZHENG WEI
JP2005007158 A	Footwear with wear-resistant footwear-sole constituted of instep-footwear and footwear-sole separably combined	Kazuko Osaka, ...
CN2559239U Y	Replaceable heels	XU SENLIANG
JP3072787U U	With a cover Wear Protection Hirukiyatsupu dance shoe for women	JINEN ISAO
CN207070909U U	Folding high -heeled shoes of adjustable height	XIE AIPING
CN206472936U U	Adjustable high -heeled shoes	JIANGSU COLLEGE OF ENGINEERING & TECHNOLOGY
CN206101780U U	Can dismantle high -heeled shoes	CIXI QIAOTOU SIYU INDUSTRY PRODUCT WORK DESIGN STUDIO
CN106539191 A	Detachable high-heeled shoe	ZHAO YUTAO
CN205285227U U	Can trade shoes of heel	SHANGHAI HENGYUN INDUSTRIAL DEVELOPMENT
KR200242110U Y1	Heel for shoes	KIM, JAE-HO
CN204105019U U	Height-adjustable high-heeled shoe	LAN TIAN
CN204070749U U	Shoes with detachable shoe heels	DONGGUAN CHISHING MANUFACTURING
CN204070744U U	Shoes with detachable shoe heels	DONGGUAN CHISHING MANUFACTURING
KR101382249 B1	A high heel	Cho, Jong - Taek
CN102641013 A	Heel-height-adjustable fold-up shoe	FOSHAN SATURDAY SHOES
CN201822024U U	Dual-purpose shoes for women	HANGZHOU YUHANG DISTRICT TANGXI VOCATIONAL SCHOOL

Publication numbers	Title	Current assignees
CN201675146U U	Shoe with replaceable wear-resistant layer	ZHANG LIANGCHEN
CN201451620U U	Detachable high-heel injection shoe	WANG SHENGMING
CN201036352U Y	High heeled shoe capable of dismounting heels	XINBAILI SHOES MAKING
CN201029491U Y	High-heeled shoes with adjustable heel	CHENGDU WENJIANG SPARK PATENT DEVELOPMENT INSTITUTE
JP2003310305 A	Repair member for heel and horseshoes	HIN KEISHUKU
JP3024549U U	Removable shoe heel part	HARUTA SHIYODAISHI
CN2081224U U	Shoes heel	ZHAO PEIDE
KR19900009010U Y1	Heel	PARK, HEE-DEUK
DE202014011128 U1	Interchangeable heel	LEIBER KATHRIN
CN206380782U U	High -heeled shoes with push button unloads follows	YONGJIA COUNTY GUJINHUI FOOTWEAR INDUSTRY
CN206324327U U	Heel and shoes	GUANGDONG POLYTECHNIC NORMAL UNIVERSITY
CN205728389U U	High -heeled shoes of removable heel	CIXI QIAOTOU SHUANGDUI SHOE FACTORY
CN205695991U U	Height adjustable shoe heel	TIAN GANG
CN205456406U U	U -shaped tubular long -life shoes of breathing freely	START
CN205082782U U	Height -adjustable saves high -heeled shoes	CENG ZHENGHUA
JP2016019714 A	Sole	ASAHI SHOES
CN104941143 A	Teaching method and rotation apparatus	CAO FUQIANG
CN204070743U U	Detachable heel type high-heeled shoes	HUAINAN NORMAL UNIVERSITY
CN203969375U U	Foldable high-heeled shoe	ZHEJIANG HUANAI SHOES
CN104082907 A	Shoe	QUAN FENGZHENG
CN203676298U U	Detachable shoe heel	SHEN LINGLI
CN203314208U U	Heel-changeable high-heeled shoe	ZHEJIANG AOKANG SHOES
CN102835783 A	Telescopic defensive and safe female shoe heel	LIUZHOU JINGYANG ENERGY SAVING TECHNOLOGY RESEARCH & DEVELOPMENT
KR101201844 B1	a shoes	GO, JONG-TAEK
EP2676561 A1	Shoe bottom and method for making such bottom	DOLCE & GABBANA
JP5019241 B1	Double-layered heel that can be turned to all directions for use	SANO TETSUYA
CN201995736U U	Shoe with replaceable heel	ZUYOU SPORTS ARTICLES

Publication numbers	Title	Current assignees
CN201219564U Y	Helical burr type adjustable replacing heels	LIAN BIN
CN101263946 A	Screw thread type adjustable changeable heel	LIAN BIN
KR20080070108 A	Used as a slipper and a shoes	KIM, SANG-HOON
CN100998456 A	Means for changing heel of shoes	LI JINWEI
WO200860065 A1	Shoes having impact absorption part	JIN SHUQING, ...
JP2005261884 A	Device for attaching heel lower part to heel upper part by separating heel part of shoe into heel upper part and heel lower part	KIN SHUUIIN
CN2655694U Y	Height-adjusting heel	SUN ZONGGUI
KR200299662U Y1	Shoe of ginger device	LEE, HAN SOO
CN2562614U Y	Light emitting shoe using light emitting tube to control multiple gear color changing	LI QINGZENG
JP2000342303 A	Leg and loin strengthening shoe weight	HORIMIZU SHIGEO
KR19980087848 A	Separable heel of shoe	KIM, MAN JONG
JP06079310U U	Adhesive Shoe Arsenide FeCoPd-rukaba-	JINEN ISAO
JP06030810 A	Shoe lift	HIRO INTERNATIONAL, ...
CN208129578U U	Interchangeable heel travelling comfort high -heeled shoes	GUANGZHOU QIAOWANI FOOTWEAR INDUSTRY
CN208002223U U	But height -adjusting's anti -skidding outdoor shoes	GUANGZHOU SONGLIAN FOOTWEAR
CN207428543U U	Novel at bottom of changeable high -heeled shoes of heel	FUJIAN ZHIMING SHOE INDUSTRY
CN207220297U U	Interchangeable is with high -heeled shoes	GUANGZHOU SHANSHANGLYU CLOTHING
CN206586483U U	Shoe with replaceable heel	MAOTAI SOLES
CN106136429 A	High-heeled shoes	ZHANG XIAODONG
CN205456482U U	Height adjustable shoe heel	ZHEJIANG KAJIALI SHOES INDUSTRY
CN205409882U U	Automatic high -heeled shoes of increaseing	HE YUENI
CN205180532U U	High -heeled shoes convenient to change heel	GUANGZHOU YAMI TRADE
CN204697994U U	Heel mrs telescopic high -heeled shoes	LUO TING
CN204335999U U	Adjustable high-heel shoe	YU HONG
CN203943166U U	Novel wear-resistant high-heeled shoe with adjustable heel	JUYI
CN203388346U U	Shoe with foldable heel	CHONGQING UNIVERSITY
CN202980416U U	High-heeled shoe with adjustable sole height	ZHEJIANG AOKANG SHOES
CN202738934U U	High-heeled shoes convenient for driving	CHENG JIANYING
CN102823990 A	High-heeled shoe for driving	CHENG JIANYING

Publication numbers	Title	Current assignees
KR20100039305 A	Heel for high-heeled shoes in which a decorative cover capable of replacement is installed	CHOE MOON HEE
CN201219560U Y	Changeable heels	LIAN BIN
CN201219562U Y	Helical burr type adjustable heels	LIAN BIN
EP1961323 A2	Support cap for thin and/or high heels on women's shoes	EPPING ASTRID
CN201167627U Y	High-heel shoe capable of changing height of heels	WANG JIANZE, ...
CN200983897U Y	Heel of shoe with the highness and elasticity adjustable	WU HAILONG
CN2862771U Y	Plug-pull two purposes shoes with flat-heel and high-heel	XIANGFAN COLLEGE
CN2817519U Y	Adjustable sandals	LI MING
EP1793696 A1	Impact attenuating and spring elements and footwear containing such elements	NIKE INNOVATE
EP1581068 A1	Article of footwear having a sole structure with adjustable characteristics	NIKE
CN2438355U Y	Leather shoes with replaceable heels	MAO XINRONG
CN2336615U Y	Shoes with flashing and changable heels	LI QINGZENG
KR19980033731U U	Detachable structure of shoes heel	SONG, DAE-HAN
CN2259073U Y	Inserted shoe heel	SHEN ZHONGPING
CN2240280U Y	Adjustable telescopic heel	LÜ SONGHAO
CN2174876U Y	Heels with adjustable parts	YANG SHENG
JP05021704U U	Women's shoe	HOME REPAIR SERVICE
KR19900009009U Y1	Heel	PARK, HEE-DEUK
CN105639847 A	Women shoe with height adjustable heel	YICHENG NO 3 SENIOR HIGH SCHOOL
CN105011471 A	Child and mother high-heeled shoe capable of being lifted up and down	TANG WUJUN
CN104720191 A	Manufacturing technology for heel-changeable shoe	WUHAN NO 11 MIDDLE SCHOOL
CN203986392U U	High-heeled shoe capable of being changed into flat shoe	JIJIAN HEAVY INDUSTRY TECHNOLOGY
CN203523892U U	Leather sandal	ZHEJIANG JINTANGLANG SHOES
CN202680738U U	Novel telescopic shoe heel	FOSHAN SATURDAY SHOES
CN201718596U U	Anti-skid sole	LIN SHAOHUA
CN2279819U Y	Quick replaced heel	YAN JIE
CN1110538 A	Shoe with changabe heel	CHAVEA
JP05091407U U	Removable heel of the shoe	Takashi Morishita sum
CN87211720U U	Self change-able ornament sole for lady high heel shoes	WANG PANCHENG

Publication numbers	Title	Current assignees
CN208160184U U	High -heeled shoes convenient to height -adjusting prevents wear -resistingly	LI SANSHAN
CN207678922U U	Conversion structure for shoes two	FUJIAN UNIVERSITY OF TECHNOLOGY
CN207461523U U	Shoes of adjustable change of heel	ZHANG LIEPING
CN206630084U U	Double -screw bolt concatenation formula high -heeled shoes	CHINA UNIVERSITY OF GEOSCIENCES
DE102016205731 B3	Shoe	WILLE MAXINE
CN205757576U U	Liftable high -heeled shoes	QUANZHOU FANTEXI INTELLIGENCE TECHNOLOGY
CN205624735U U	Pressure bar adjusts formula high -heeled shoes	QUANZHOU FANTEXI INTELLIGENCE TECHNOLOGY
CN205456414U U	High -heeled shoe	CHENGDU AIMIQI SHOES INDUSTRY
KR200243308U Y1	Matrix type exchangeable shoesheel	AHN, KWAN HO
EP3160281 A1	Heel-protecting device, heel-protecting system, and heel-protecting device assortment	DOETSCH PETRA
CN105054491 A	High-heeled shoe with adjustable heel	ZHANG RONGHUI
KR101503296 B1	Shoes for changing heel	LEE, GYO JUN
CN204181057U U	Heel height adjustable high-heeled shoes	UNIVERSITY OF SHANGHAI FOR SCIENCE & TECHNOLOGY
CN202774418U U	Height-adjustable heel shoe	ZHANG YU
CN102793338 A	Heal and sole linked adjustable high-heeled shoes	HANGZHOU YANGGUO SCIENCE & TECHNOLOGY
KR20090009039U U	Shoe heel exchange of the round window	Ki wo ill
CN2765502U Y	Shoe heel	LI RENCAI
KR200363975U Y1	A shoes that can control the heels of shoes in height	CHA, WHA MOK
CN1377616 A	Shoe heel	LIANYI ENTERPRISE
KR200196417U Y1	Sliding exchange type shoes hoof	KIM, YEONG SEOK
CN2347452U Y	Shoes with adjustable heels	LIU GUANGHUA
US20100101113 A1	Article of footwear with interchangeable heels	NIKE
FR2857832 A1	Foot wear e.g. shoe or slipper, has flexible link connecting lower and upper parts of sole, to open or close gap between parts, and wedge removably fixed between lower and upper parts for adjusting opening of gap	OXYPAS
EP2768334 A1	Shoe with attachable fashion accessories	WORLEY ANN R
WO200637143 A1		

Publication numbers	Title	Current assignees
	Collapsible high-heeled shoe	WALKING CHAIR DESIGN STUDIO
US20130067770 A1	Shoe with interchangeable heels	SHERWOOD JULIANA LUTZI, ...
KR20050081525 A	A shose	KIM, KYUNG-SUB
DE202008004259 U1	2 shoe heel 1 into	LUDIN SABRINA
DE202006017855 U1	Lady shoe, has heel exhibiting height and thickness of specific centimeters, and detachable protective cap, where heel is fastened at top of screw	PFLIEGLER RENATE
US20110119954 A1	Replaceable Heels	ORTIZ SANDRYSABEL
KR20120000130 A	The heels and the manufacturing method for rear hoof of high-heeled shoes	LEE, SEUNG-HO
US20160015130 A1	Interchangeable Wedged Heel Covering Device	KNOX JANNA
DE102013110663 A1	Device for placement on a shoe	KÄMMER KAMIL
US20070011909 A1	Womens shoe that transforms from a high heel shoe to a flat type shoe	PALMERI JOHN G III
DE202010013948 U1	Protective cover for steps of shoes	JOHNSON ANGELIKA
EP2023359 A1	Joystick-type switch device	TOYO DENSO
US20100031533 A1	Footwear sole with a removable heel insert	QUIKSILVER AMERICAS, ...
EP2309887 A1	Footwear, clothing and other apparel with interchangeable toe and heel members or other ornaments and related methods and systems	APTUSTECH
FR3002417 A1	Multi-height shoe, has sole under which heel is housed at rear part and divided into removable parts, and removable upper parts assembled on sole, where one of upper parts maintains ankle and other upper part maintains foot front part	GUIDE MARIE ADRIENNE
FR2996425 A1	Shoe, has sole fixed to upper surface of base, and rod including lower edge portion sandwiched between marginal portion of sole and upper surface of base, where sole is attached to base by screwing	ELEMENT DESIGN PARIS
WO200631444 A2	Footwear with removable insert	KUMLE DAVID
EP2653049 A2	Auxiliary shoe heel and method of fabricating same	KIM KYUNG JONG
US20140096413 A1	High-heeled shoe with exchangeable high-heels	ANDERSON JUANITA
EP2782465 A1	Apparatus and methods for providing stability for heeled shoes	Shirley White
EP3334307 A1	Combination shoe that can be transformed into a shoe with different heel heights	BRAD ALLEN
WO2007113652 A2	Variable height heel structure for shoes	NENCINI LORENZO, ...
US8046936 B1	Removable shoe heel assembly for women's footwear	DRASTIC SHOES
US20150230555 A1	Article of footwear with removable and height adjustable heel	SAINT LOUIS ANATALIE

Publication numbers	Title	Current assignees
US20180000198 A1	Method of Decorating Shoes and Decorated Shoes	CHAMBERLAIN KARYN
KR200412048U Y1	Attrition Preventive Device for Foot Wear Heel	PARK, DONG YOUN
US3646497 A	Shoe with interchangeable heels	WILLIS MARTHA ANN HARKERS ISLAND NC
US20150089833 A1	Shoe sole and interchangeable heel	BALLET MAKERS
WO2014196818 A1	Synthetic resin cup, cup set, spring-loaded cup, instant noodles, package container, flower pot, hat and shoes	SUNG HYUN WOOK
US20140298685 A1	Transformable shoe having a sole that allows different height heels to be detached and attached easily	ALAN BRAD, ...
US20070051016 A1	Rear foot support	ZORIN REBECCA R
US20120324764 A1	Shoes with Replaceable Design Pieces and Illumination	VELEZ-CRUZ LUIS YOHAN
US20060196082 A1	Modular heel assembly for high heel shoes	ROBBINS DAVID B
KR20110028919 A	A spring shoes	IXEX TB, ...
EP3334306 A1	High heel shoe	THESES COUTURE
US20160183625 A1	Women's shoes that interchange from high heel form to flat form	REZVI SAYID QAMBER REZA
FR3000875 A1	Footwear e.g. low fronted shoe, has sole sub-divided into heel, shank and front foot parts, and heel assembly comprising removable heel elements selectively fixed on sole by rotation at heel part by assembly unit and click-and-ratchet unit	BRUN LESLIE, ...
DE202012101281 U1	Heel shoe heel having interchangeable	LEIBER HEINZ, ...
KR20100032951 A	Shoe heel made of foamex boards and the method	LEE, SEUNGGYU
KR20090005790U U	Prevention of noise for a heel	YANG YeonJu
DE8624236 U1		STOSCHEK HORST GUENTER JULIUS 4100 DUISBURG
US9392837 B1	Interchangeable shoe heels	MURPHY MICHAEL E
KR20090038987 A	Rising stature insole for shoes which is installed at the inner part of the shoe	HAN SHIN TRANDING
EP1565084 A1	Method for the production of a shock absorbing heel for footwear and the heel produced thereby	SALVATORE FERRAGAMO ITALIA
US20170318909 A1	Disposable Covering Device	GILBERT GLENDA
KR20120077901 A	The heels for rear hoof of high-heeled shoes	LEE, SEUNG-HO
WO200797616 A1	Base for footwear and footwear provided with such a base	WOUTER HENK KREUWEL

Family 1/432 - FAMPAT - ©Questel

Title

(WO201908428)

System for quickly replacing heel tops

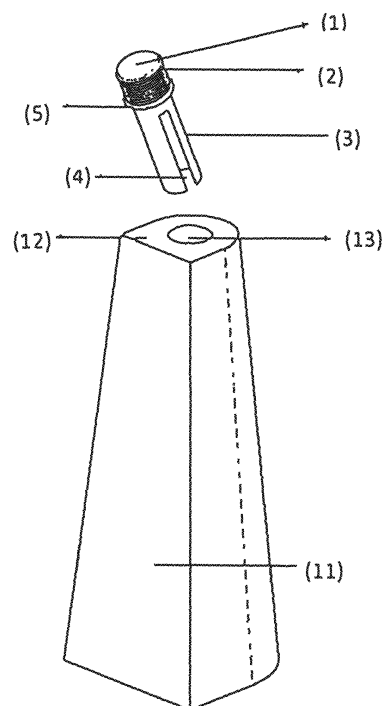
Images

Fig. 3

Publication data including kind & date[WO2019/008428](#)

A1 2019-01-10

WO201908428

[CO2017006829](#)

A1 2018-07-10

CO2017006829A1

**Abstract**

(WO2019/008428)

The invention relates to a system for quickly replacing heel tops, comprising a coupling element formed by a metal rod having a first hollow end provided with a smooth surface and a longitudinal groove and a second solid end provided with a threaded surface, the first end being separated from the second end by a washer that is solidly connected to the body of the metal rod, such that the first end of the rod is press-fitted into a concentric cavity in the body of the heel while the second end of the rod is coupled to the threaded cavity in the conical top piece, the contact surfaces of the top piece and the heel being smooth such that the base of the heel can be closed.

Inventors

RESTREPO CASTAÑO RODRIGO

Family 2/432 - FAMPAT - ©Questel

Title

(GB8427449)

Footwear components

Images

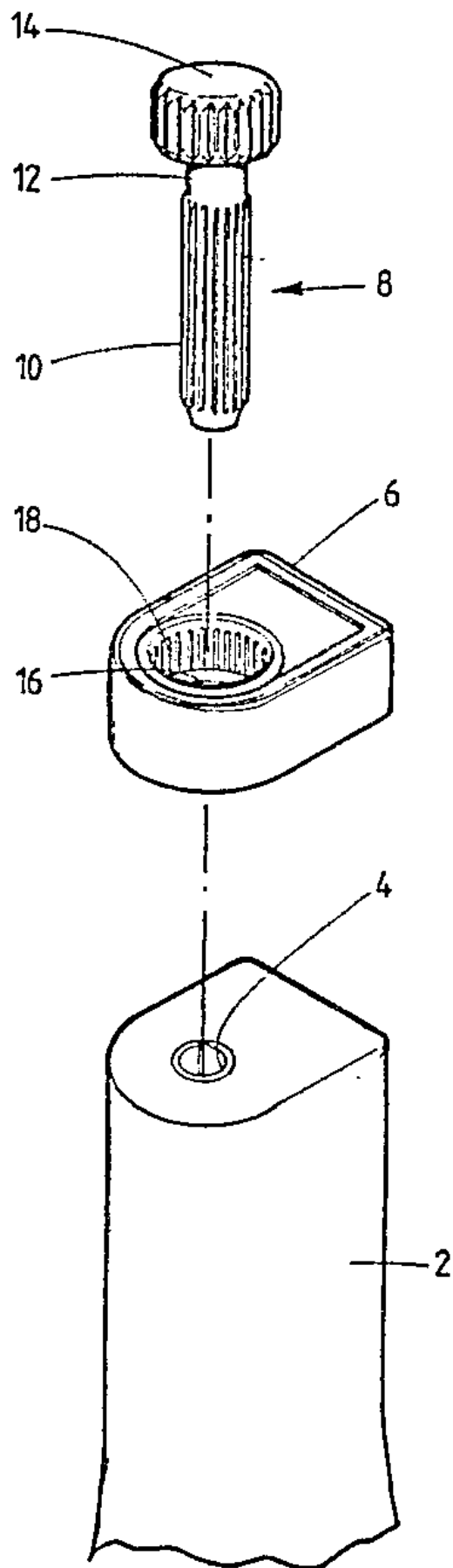


Fig.1.

Publication data including kind & date

GB2166338	B	1988-04-13	GB2166338
GB2166338	A	1986-05-08	GB2166338
GB8526697	D0	1985-12-04	GB8526697
GB8427449	D0	1984-12-05	GB8427449

**Abstract**

(GB8427449)

The invention relates to a top-piece (6) for attachment to a heel component (2), for example a stiletto heel. A bore passes axially through the top-piece and comprises a first portion (16), and a second portion (18) which has a larger diameter and is provided with a grip-enhancing surface comprising axially-arranged internal splines which engage with the splined head (14) of an attachment pin (8), the shank (10) of which is received in a split tube (4) in the heel component (2). <IMAGE>

(From GB2166338 A)

Inventors

PARSONS ROY BARRIE

Latest standardized assignees - inventors removed

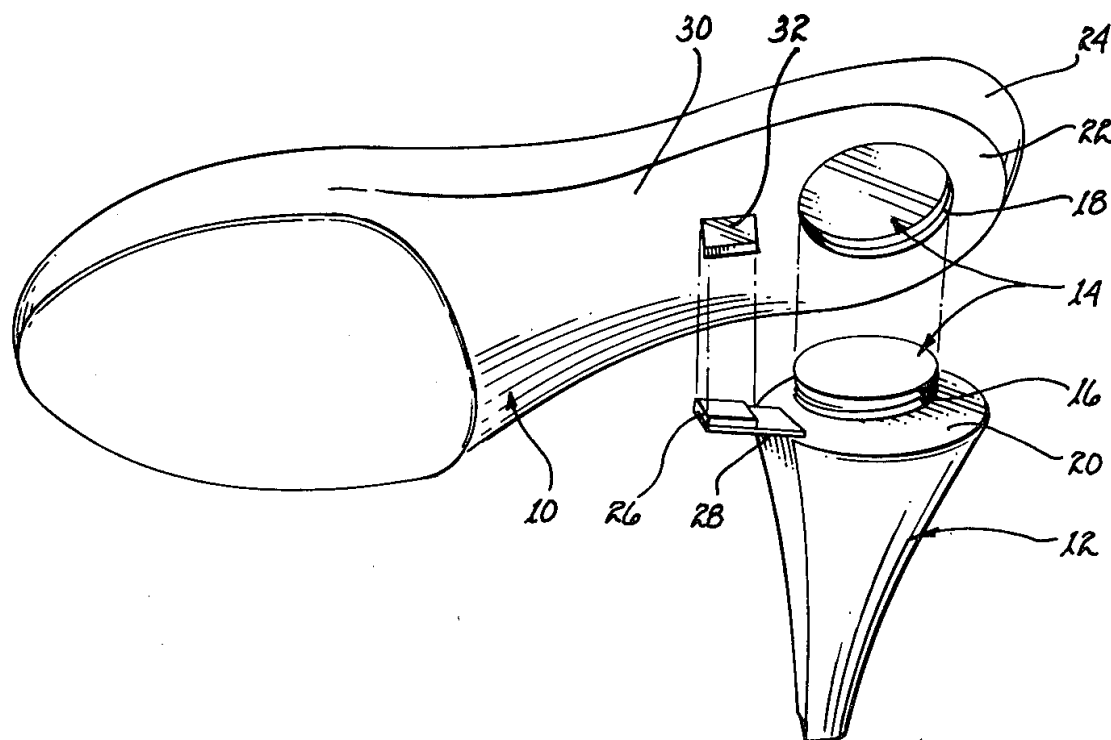
PARSONS R B

Family 3/432 - FAMPAT - ©Questel

Title

(US4363177)

Style convertible footwear

Images**Publication data including kind & date**

US4363177	A	1982-12-14	US4363177
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**Abstract**

(US4363177)

Each of a plurality of readily detachably attachable heels and each of a plurality of readily detachably attachable uppers are selectively mounted upon a sole and offer a user the freedom of rapid facile changes in style of footwear.

Inventors

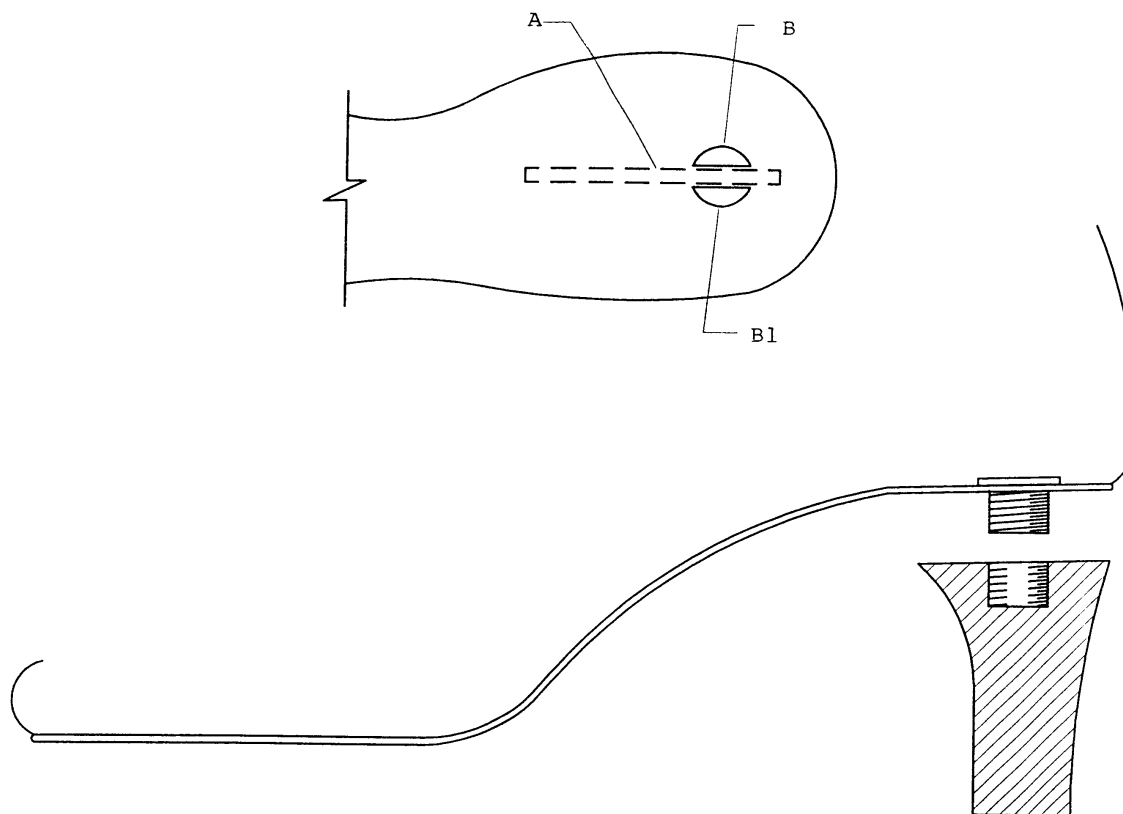
BOROS LESLIE A

Family 4/432 - FAMPAT - ©Questel

Title

(US6631570)

Rotationally detachable low to high heel shoes

Images**Publication data including kind & date**[US6631570](#)

B1 2003-10-14 US6631570

**Abstract**

(US6631570)

A structure of a low to high heel shoe wherein a sole FIG. <HIL>

1 </BOLD>

having two semicircular "D" shaped punched holes on either side of the shank is formed in the rear of the shoe sole area, to receive a bolt fitting FIG. <HIL>

2 </BOLD>

having a bight slot and two opposing distal members, fitting through the punched holes and over the shoe shank thereby adjoining to the heel FIG. <HIL>

4. </BOLD></PTEXT>

Inventors

WALKER LISA

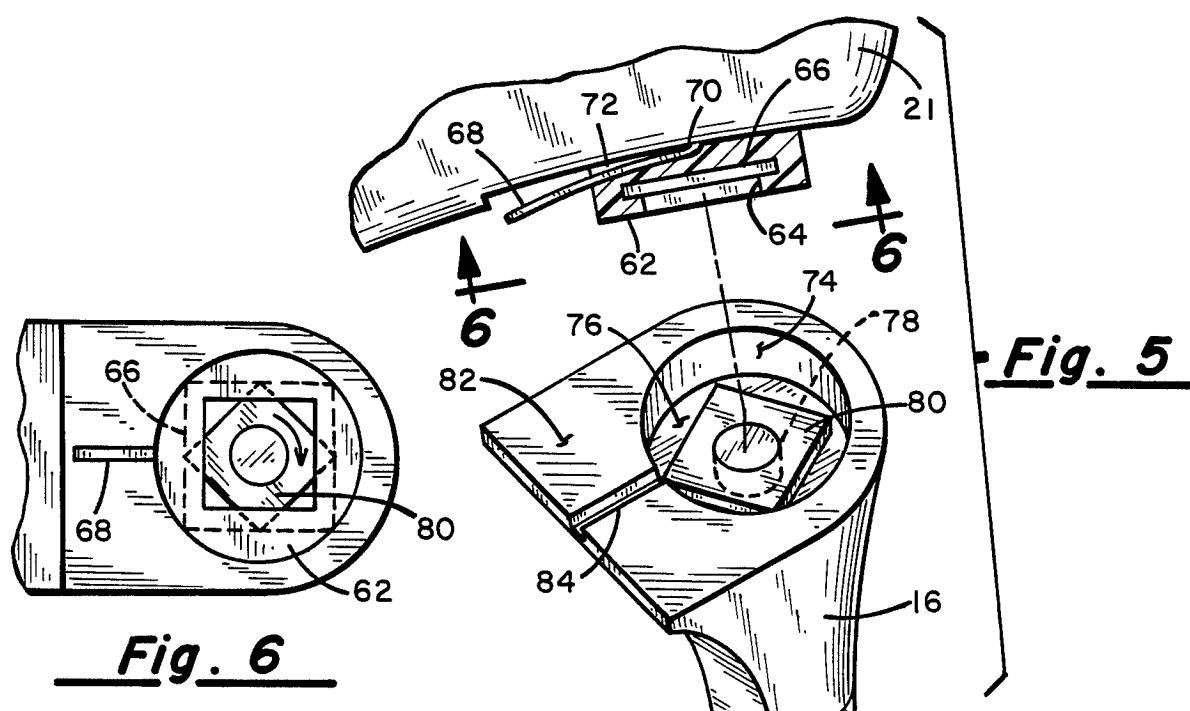
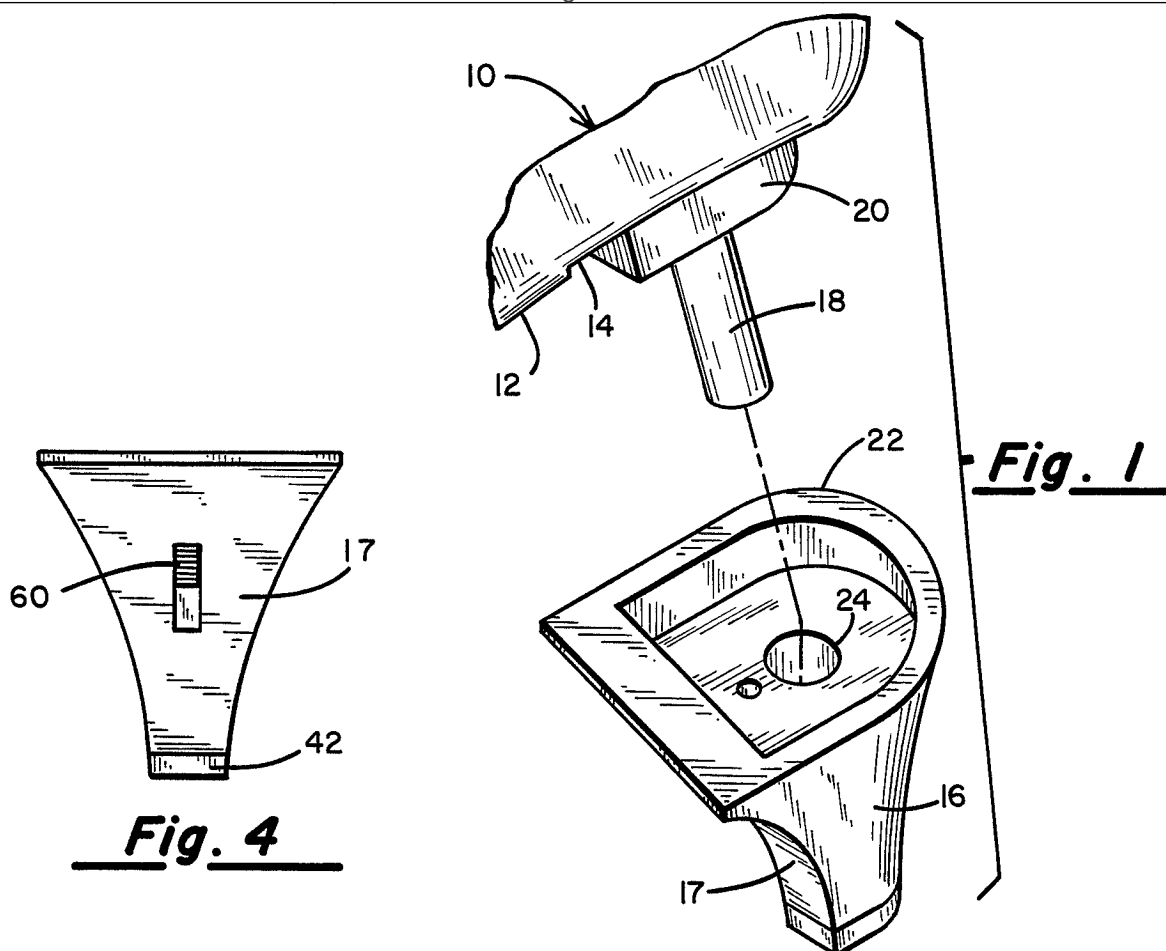
Family 5/432 - FAMPAT - ©Questel

Title

(EP-314411)

Shoe with exchangeable heel.

Images

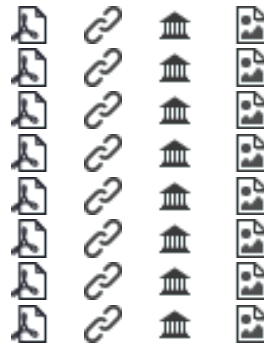


Publication data including kind & date

CA1337237	C	1995-10-10	CA1337237
DE3889420	T2	1994-10-06	DE3889420
ES2056112	T3	1994-10-01	ES2056112
DE3889420	D1	1994-06-09	DE3889420
EP0314411	B1	1994-05-04	EP-314411
BRPI8805493	A1	1993-07-27	BR8805493
MX167259	B	1993-03-12	MX-167259



AU618761	B2	1992-01-09	AU-618761
EP0314411	A3	1990-09-19	EP-314411
IL88129	B	1990-07-26	IL--88129
BR8805493	A	1989-07-04	BR8805493
IL88129	A	1989-06-30	IL--88129
EP0314411	A2	1989-05-03	EP-314411
AU2432088	A	1989-04-27	AU8824320
US4805320	A	1989-02-21	US4805320

**Abstract**

(EP0314411)

An article of footwear comprising a shoe having a removable and replaceable heel. Attached to the sole surface of the shoe's upper is a outwardly projecting shaft which is adapted to fit into an internal bore formed in the core of the shoe's heel member. A latch mechanism is provided for inhibiting unintended separation of the heel from the upper.

Inventors

GOLDENBERG TZVIKA Y

Latest standardized assignees - inventors removed

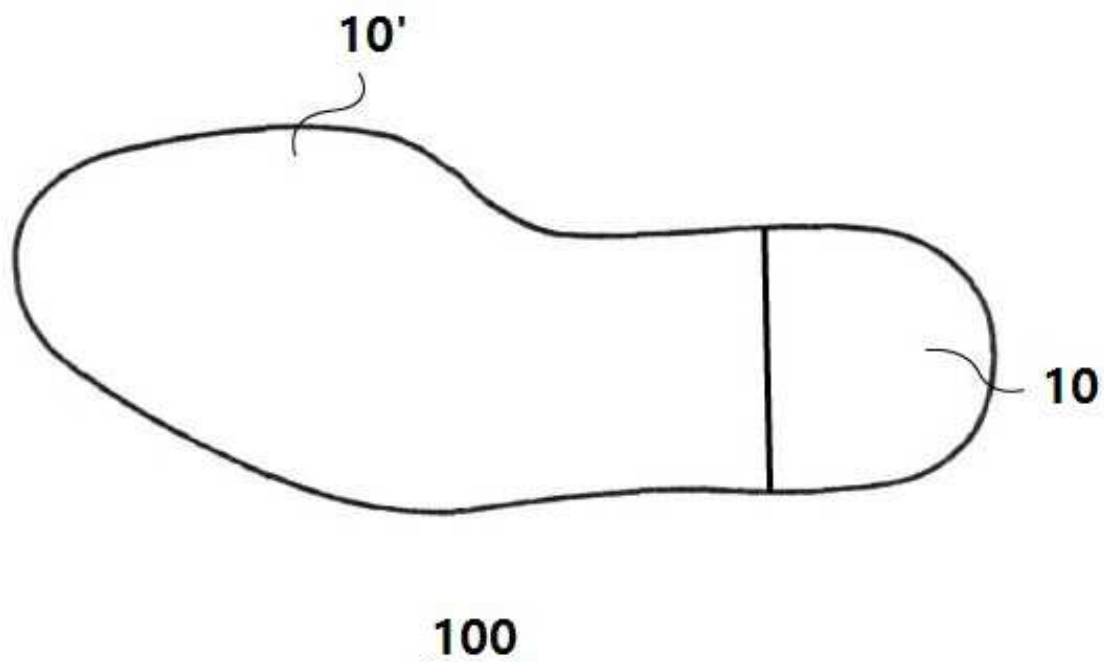
T GAL ENTERPRISES

Family 6/432 - FAMPAT - ©Questel

Title

(KR101931482)

An auxiliary heel for heel of shoe

Images**Publication data including kind & date**

KR10-1931482	B1	2018-12-21	KR101931482
KR20180105776	A	2018-10-01	KR20180105776

**Abstract**

(KR20180105776)

The present invention relates to an auxiliary heel for a shoe which can be attached to and detached from a plurality of heels to prevent the heel of a leather shoe, a work shoe, and a sneaker (hereinafter, a shoe) from being worn. Recessed units (20) are formed, on a plurality of portions of the heel of a shoe, to have a size and a depth corresponding to the size and

the thickness of an auxiliary heel (50) to prevent detachment when the auxiliary heel (50) is attached. The auxiliary heel (50) is flat, has elasticity at a predetermined level, and has a surface coming in contact with the recessed units (20) and having a plurality of engraved units (40) in a predetermined shape. A plurality of embossed units (30) in the shape corresponding to the shape and the depth of the engraved units (40) are arranged in locations corresponding to the engraved units (40) on the surfaces of the recessed units (20). When the auxiliary heel (50) is attached, after locating the engraved units (20) on the embossed units (30), an outline portion of the auxiliary heel (50) is bent inwards by applying force at a predetermined level to the outline portion by using the elasticity of a grounding surface of the auxiliary heel (50). Afterwards, the auxiliary heel (50) is inserted into the recessed units (20) and is pressed until the grounding surface of the auxiliary heel (50) becomes the same as the grounding surface of the heel (10). Consequently, the auxiliary heel (50) is attached to the heel (10). When the auxiliary heel (50) is removed, the outline portion of the auxiliary heel (50) is bent inwards with force at a predetermined level by using the elasticity of the attached auxiliary heel (50) and then is pulled to be removed.

Inventors

LIM, JEONG DO

LIM, YUN SUNG

Family 7/432 - FAMPAT - ©Questel

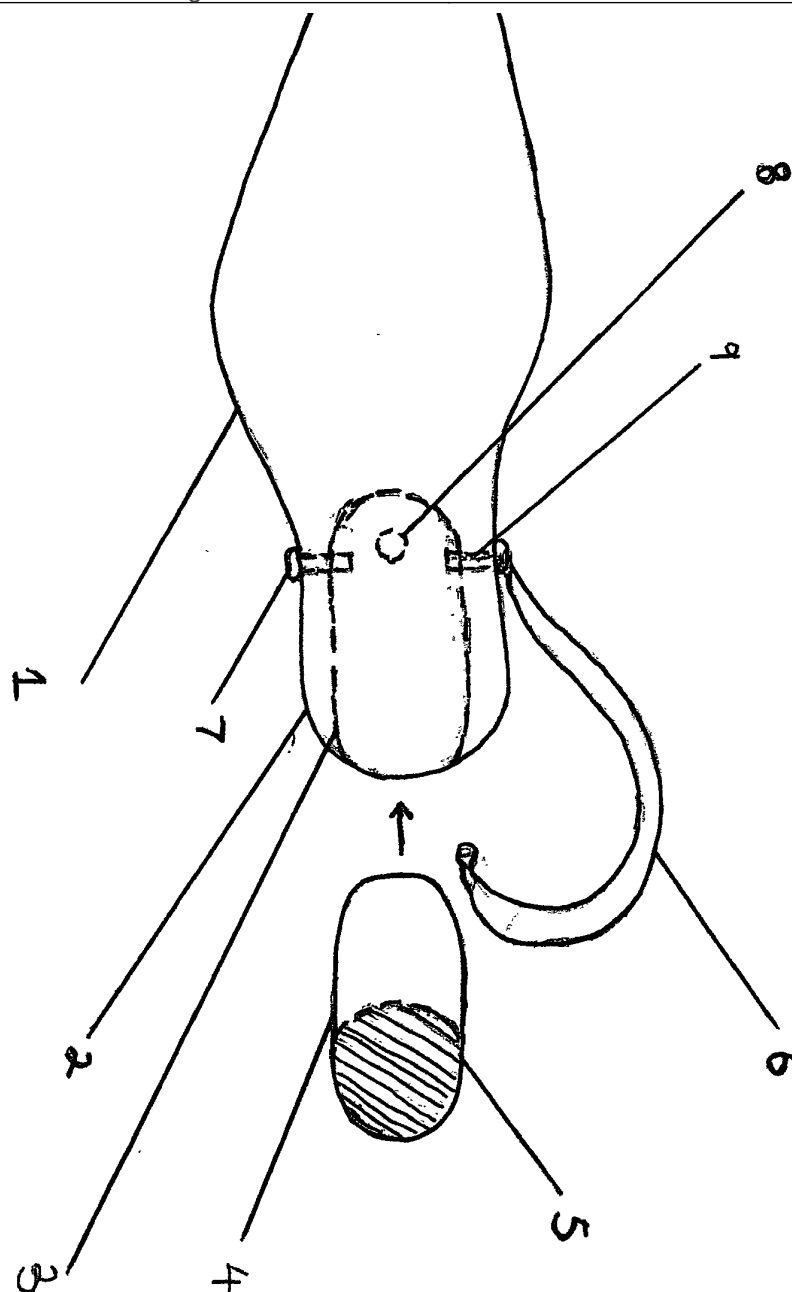
Title

(GB2528661)

Changeable, removable, and sliding heels

Images

Fig 1

**Publication data including kind & date**

GB2528661	A	2016-02-03	GB2528661
GB201413191	D0	2014-09-10	GB201413191

**Abstract**

(GB201413191)

A modified sole 1 that includes grooves 3 on the expanded portion 2 for insertion of a sliding base platform 4 to which a heel 5 is attached. There are locking mechanisms 6, 7, 8 to secure the heel firmly to the sole once slotted in. A band 6 encircles the heel and is secured to the pins 7, 9.

Inventors

NNENE CHUKWUEMEKA OKWUDILI

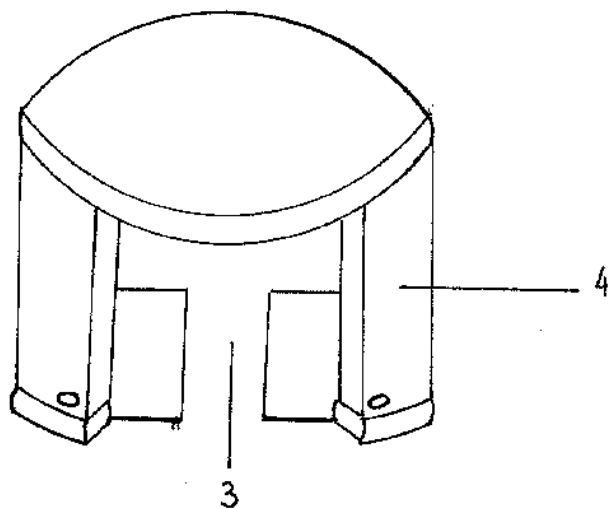
Family 8/432 - FAMPAT - ©Questel

Title

(FR2869768)

Shoe for sports and festival occasion, has sole on which fixed heel is integrated, removable heel with outer end sliding in cavity of fixed heel, and open and rotating ring placed around fixed heel to avoid dislocation of heels

Images

**Publication data including kind & date**

FR2869768	B1	2006-08-04	FR2869768
FR2869768	A1	2005-11-11	FR2869768

**Abstract**

(FR2869768)

The shoe has a sole on which a fixed circular heel, having reduced thickness, is integrated. A removable heel has an outer end of shape similar to a cavity (3) of the fixed heel, where the outer end of the removable heel slides in the cavity. An open and rotating ring (4) placed around the fixed heel permits to lock the shoe to avoid dislocation of the heels. Lower and upper edges (5, 6) are provided for holding the ring.

Inventors

MORDANT HELENE

SAGET OLIVIER

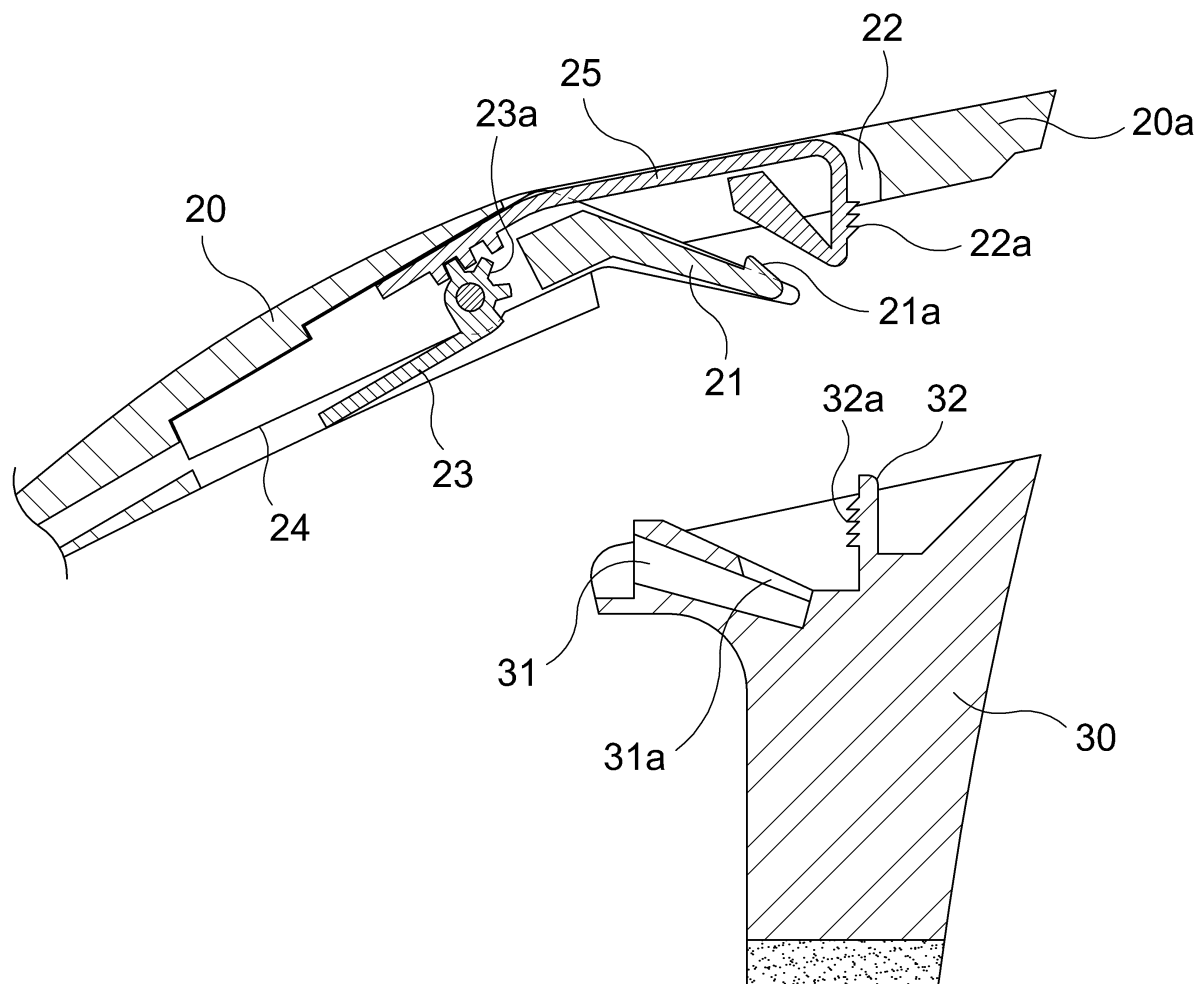
Family 9/432 - FAMPAT - ©Questel

Title

(KR101890349)

Shoe capable of attaching/detaching heel

Images



Publication data including kind & date

KR101890349

B1 2018-08-21 KR101890349



Abstract

(KR101890349)

The present invention relates to a shoe capable of attaching/detaching a heel and, more specifically, to a shoe capable of attaching/detaching a heel, wherein the heel is easily attached/detached to be quickly replaced with a heel with various colors and heights when necessary. To achieve this, according to the present invention, a shoe attaches/detaches a heel (30) to/from the rear end part (20a) of a sole (20) integrally formed with the bottom surface of a shoe body (10) by a coupling means and an attachment/detachment means. The coupling means comprises: a coupling device (21) formed at the rear end part (20a) of the sole (20); and a coupling groove (31) formed in the heel (30) to be coupled to the coupling device (21). The attachment/detachment means comprises: an attachment/detachment device (32) protruding from the heel (30); and an attachment/detachment groove (22) formed on the sole (20) to be coupled to the attachment/detachment device (32). A plurality of locking grooves (32a) are formed in the attachment/detachment device (32), and an elastic locking protrusion (22a) to prevent separation of the attachment/detachment device (32) is formed on one side of the attachment/detachment groove (22) corresponding to the locking groove (32a), and a moving lever (23) for releasing locking of the elastic locking protrusion (22a) is formed on the sole (20).

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Inventors

CHOE, HAN NA

Latest standardized assignees - inventors removed

CHOE HAN

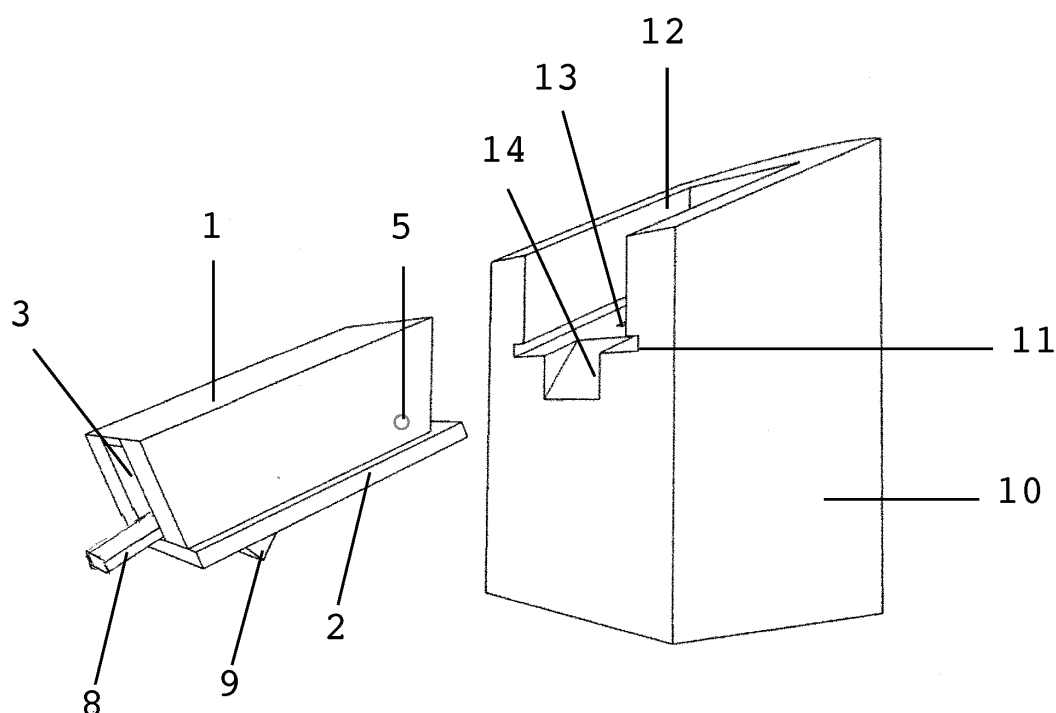
Family 10/432 - FAMPAT - ©Questel

Title

(FR3062035)

DEVICE FOR FIXING A REMOVABLE INTERCHANGEABLE HEELS FOR SHOES

Images



Publication data including kind & date

FR3062036	B1	2019-07-05	FR3062036
FR3062035	A1	2018-07-27	FR3062035
FR3062036	A1	2018-07-27	FR3062036



Abstract

(FR3062035)

The invention relates to the use of a system of locking and unlocking the interchangeable heels for changing to its manner of a heels while keeping the same pair of shoes.

It consists of a housing (1), under the sole of the shoe, on which a heel (10) is fitted and is machined so as to contain an elastic system mobilises a locking lug (9) which projects from the housing and is lodged in a notch (13) of the heel locking it. This elastic system is accessible by the user, through an opening in the (3) housing. It can act on its end (8) in order to raise the pin and unlock the heel. The lug automatically resumes its initial position by virtue of the elasticity of the system, when the user releases.

The device according to the invention is particularly intended for the manufacture of shoes with interchangeable heels.

Inventors

CHERIF CHEIKH MARGAUX

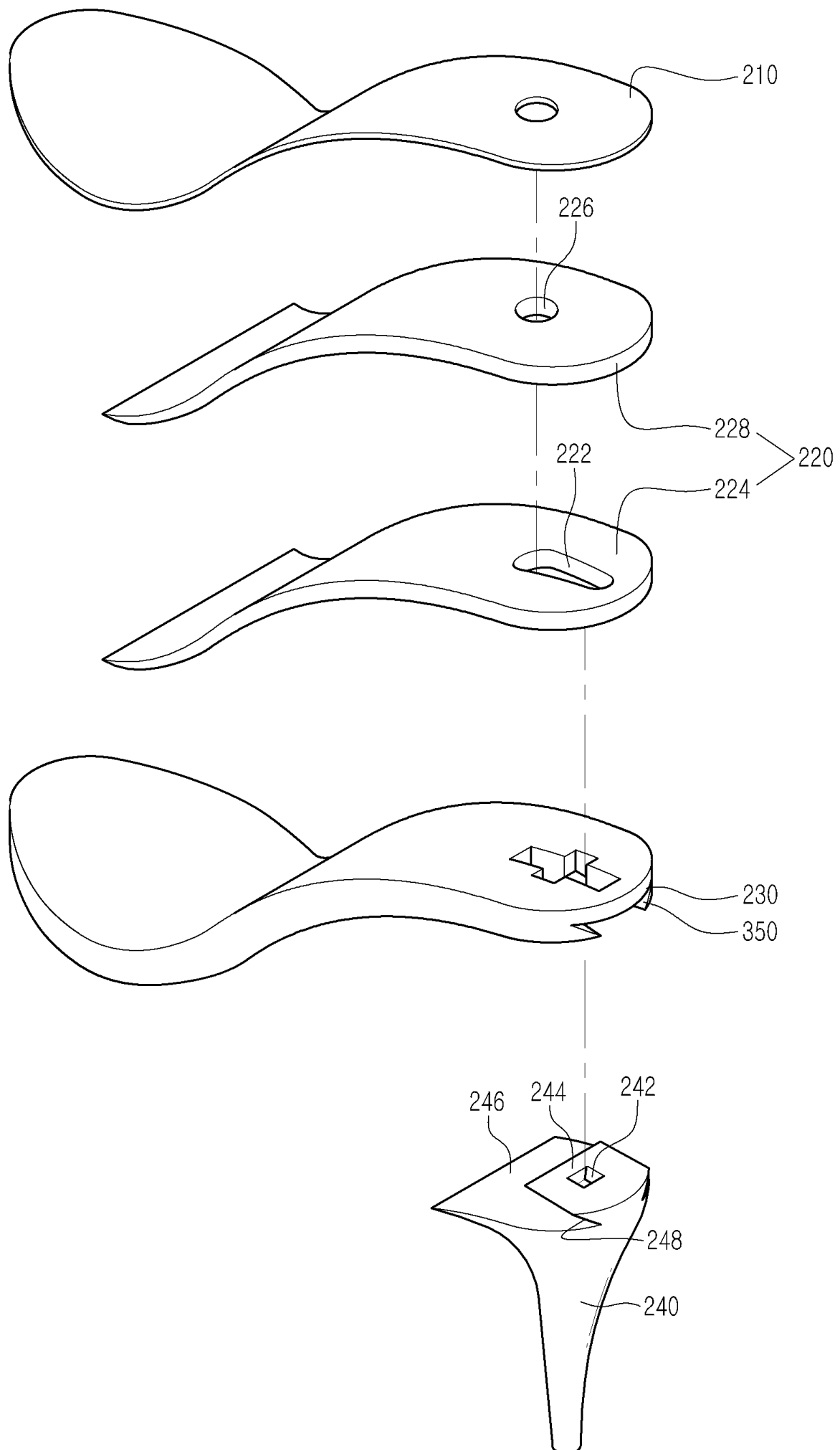
Family 11/432 - FAMPAT - ©Questel

Title

(KR101375521)

Shoe which is easily separated and combined of heel

Images



Publication data including kind & date[KR101375521](#)

B1 2014-03-25 KR101375521

**Abstract**

(KR101375521)

The present invention relates to a shoe easily attached and detached to and from a heel. The shoe comprises a midsole in which insoles are stacked, comprising an upper insole of which a removable ball is formed on one side and a lower insole connected to the lower part of the upper insole in which an operation groove in an elongated form in communication with the removable ball; an operation groove in which a removable unit is installed arranged on the lower part of the lower insole to be located in the operation groove; a shoe body in which a guide unit having a yaw groove for a heel to be connected; and a heel in which a sliding unit is inserted in the guiding unit of the heel body and a coupling groove in which the removable unit is detachably connected. The removable unit is inserted in the operation groove and includes a rotary guide with a rotating shaft, a fixing unit coupled to the rotary guide for rotating, a button unit projected and formed on one side of the fixing unit to be in the removable ball and supplying predetermined pressure, an elastic member fixed in the button unit with the upper part and providing predetermined elastic restoring force, and a combining member in the other part of the fixing unit to be bonded to the coupling groove of the heel and releasing coupling according to the operation of the button unit.

Inventors

KIM, SANG BAEK

CHOE, YOUNG-CHOL

Latest standardized assignees - inventors removed

H & J HEEL

TAE KWANG

H ANDEAN HILL

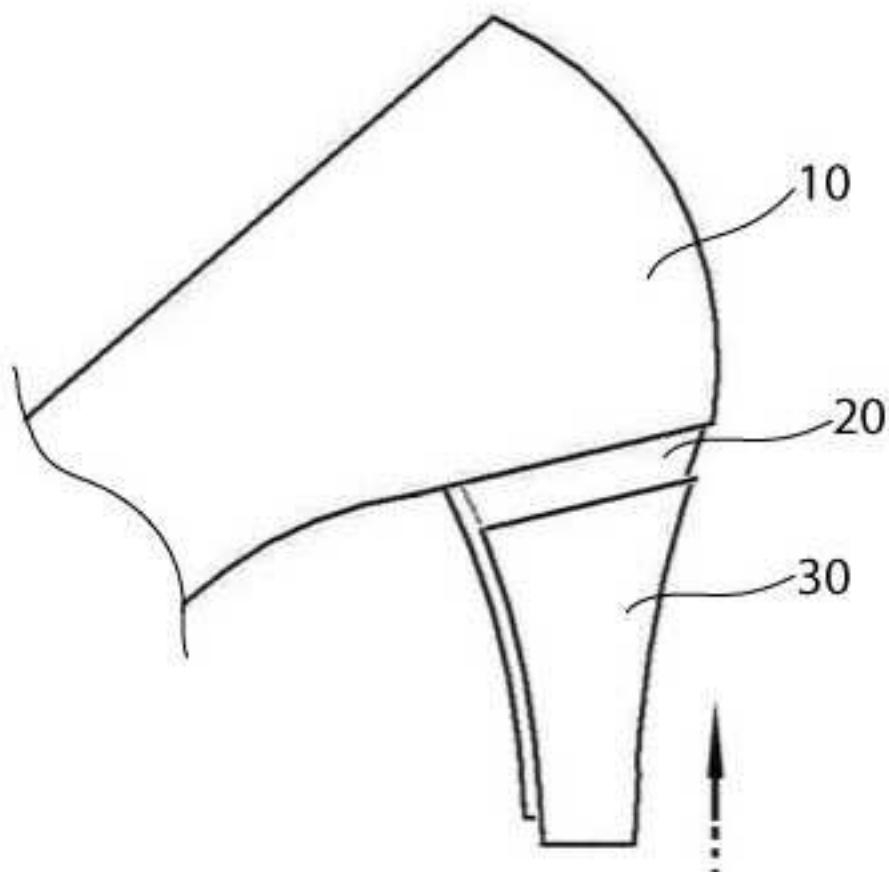
Family 12/432 - FAMPAT - ©Questel

Title

(KR20180115405)

.Easy to change design shoes heel.

Images

**Publication data including kind & date**[KR20180115405](#)

A

2018-10-23

KR20180115405

**Abstract**

(KR20180115405)

The present invention relates to a shoes heel capable of easily changing a design. The heel (20) is fitted with a shape heel (30) formed in various designs from the bottom to the top of the shoes heel, thereby producing various styles with a simple operation. Also, the shoes heel can be simply and easily repaired in repair due to damage to the heel, thereby having an economical effect in terms of a time and a cost.

Inventors

KIM, CHUL

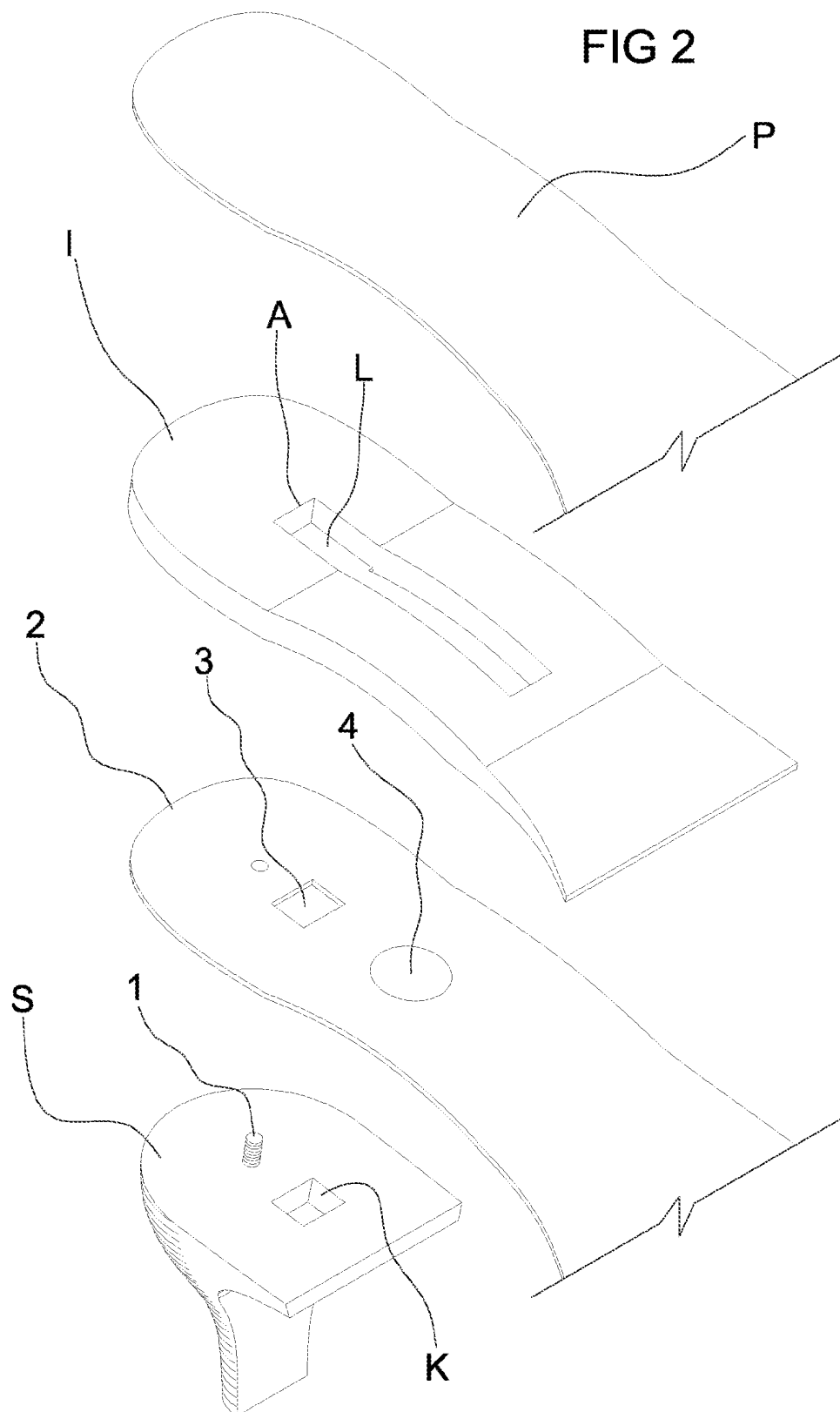
Family 13/432 - FAMPAT - ©Questel

Title

(WO2018152607)

Improvement to a shoe with an interchangeable heel

Images



Publication data including kind & date

BR202017003781	U2	2018-10-30	BR202017003781
WO2018/152607	A1	2018-08-30	WO2018152607



Abstract

(WO2018/152607)

Proposed is a utility model relating to an improvement to a shoe, generally for women, which differs from conventional shoes in that the heel can be connected to and disconnected from the sole by screwing and is thus interchangeable. The present improvement comprises an insert (I) in the sole, having a threaded hole for receiving the centre screw (1) of the

heel (S), said insert (I) also having a central opening, inside which a flexible tongue (L) is formed, the end of which is provided with a lower protuberance (R) which slots into a cavity (K) in the heel, said cavity (K) being disposed radially relative to the centre screw (1) of the heel (S) so that when the heel (S) is connected to the sole, the protuberance (R) remains engaged in said cavity (K), preventing rotation between the heel and the sole, and when the heel is to be disconnected, it is sufficient for the user to press on the underside of the tongue (L) (the underside of the shoe), thus disengaging the protuberance (R) from the cavity (K) of the heel (S) and making it possible to rotate the heel (S) and disconnect it from the sole.

Inventors

STIEFELMANN ROBERTO

Family 14/432 - FAMPAT - ©Questel

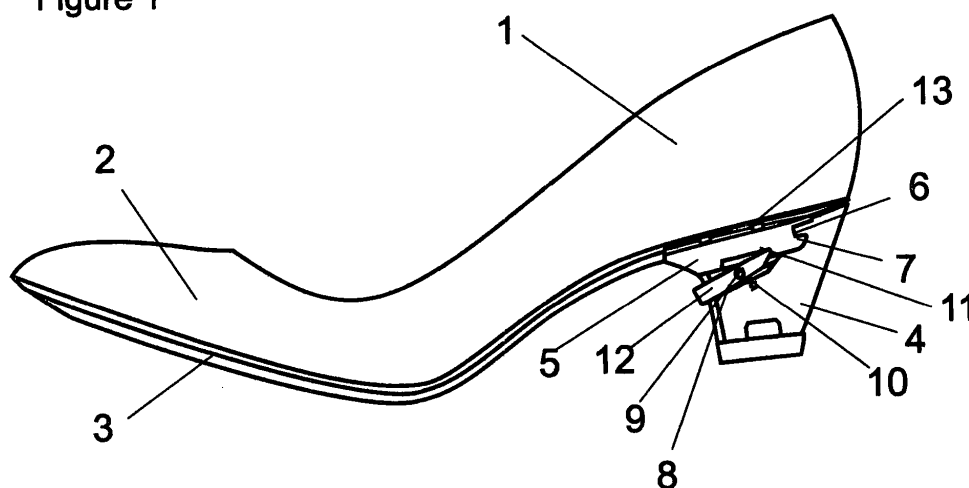
Title

(WO201559442)

Footwear with interchangeable heels

Images

Figure 1



Publication data including kind & date

WO2015/059442	A1	2015-04-30	WO201559442
GB2519580	A	2015-04-29	GB2519580
GB201318918	D0	2013-12-11	GB201318918



Abstract

(WO2015/059442)

An interchangeable heel for a footwear article, the interchangeable heel comprising: a plate for securing to the sole of the footwear article, said plate incorporating at least one flange; and, a heel portion comprising at least one groove, whereby said at least one groove is configured to engage with the at least one flange, wherein the heel portion incorporates a releasable fastening means to releasably secure the heel portion to the plate, and a quick release means within the fastening means to release the heel portion for interchanging.

Inventors

BARRY OUMOU HAWA

Family 15/432 - FAMPAT - ©Questel

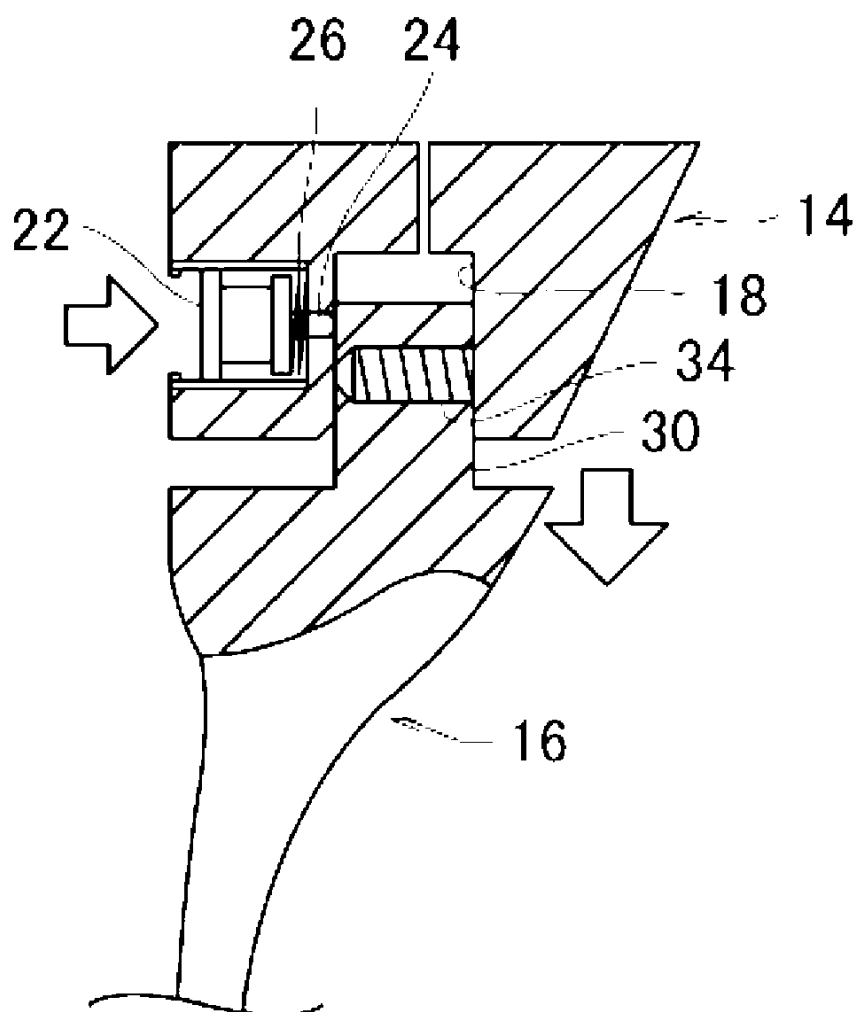
Title

(WO201698352)

Shoe heel

Images

[図5]

**Publication data including kind & date**

JP6395589	B2	2018-09-26	JP6395589
WO2016/098352	A1	2016-06-23	WO201698352
JP2016112271	A	2016-06-23	JP2016112271

**Abstract**

(WO2016/098352)

An objective of the present is to provide a shoe heel with which the ground-contacting part of the heel can be easily replaced, and which does not detach unexpectedly when walking. This shoe heel comprises a heel base that is provided to the bottom of a shoe, and a ground-contacting part that is provided to the undersurface of the heel base. An engagement recess is provided to one among the heel base and the ground-contacting part, and an engagement protrusion is provided to the other among the heel base and the ground-contacting part, the engagement protrusion being capable of tightly engaging with the engagement recess by being inserted therein. The shoe heel has a structure in which the heel base and the ground-contacting part are integrated by fitting the engagement recess and the engagement protrusion. The heel base and the ground-contacting part have attachment and detachment means that are freely detachable. In the attachment and detachment means, a fixing pin, which protrudes in a manner capable of advancing and retreating in the fitting direction, is provided to one among the heel base and the ground-contacting part. The attachment and detachment means are provided with: a fixing hole which is provided in a position corresponding to the tip of the fixing pin when the one among the heel base and the ground-contacting part is engaged with the other, and into which the fixing pin is inserted without any looseness; and a release pin which, by pressing from the outer surface opposite to the opening of the fixing hole, can push at least the head of the fixing pin that has been inserted into the fixing hole so as to be flush with the engagement recess.

wall surface.

Inventors

KAMEYAMA KAZUNAO

ONO TOMOHIRO

MIZOGUCHI KAZUKI

Latest standardized assignees - inventors removed

NEW WORLD

Family 16/432 - FAMPAT - ©Questel

Title

(US6050002)

Athletic shoe with improved sole

Images

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US6050002	A	2000-04-18	US6050002				

Abstract

(US6050002)

A shoe having a flexible member positioned below a foot support region and above a sole portion. The flexible member having rods extending from the interior portion toward the peripheral portion of the flexible member. The peripheral portion of the flexible member having the periphery thereof restrained from movement so that the flexible member deflects when used.

Inventors

MESCHAN DAVID F

Latest standardized assignees - inventors removed

AKEVA

Family 17/432 - FAMPAT - ©Questel

Title

(WO2013178842)

Supporting element for heels

Images

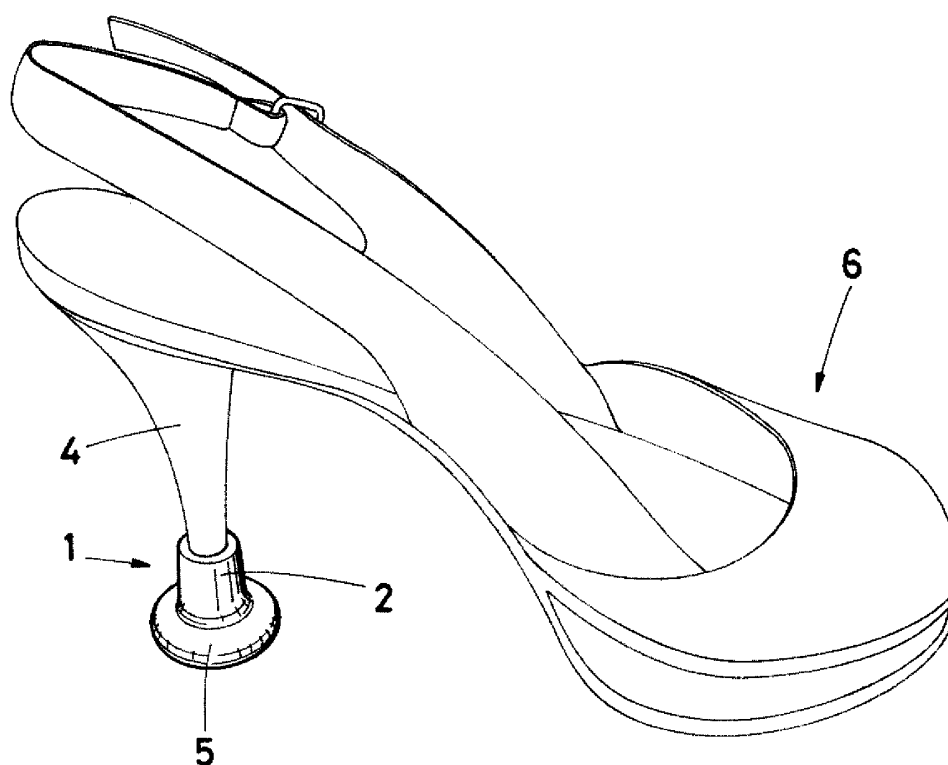


FIG. 4

Publication data including kind & date

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WO2013/178842	A1	2013-12-05	WO2013178842
ES1077267	Y	2013-01-18	ES1077267Y
ES1077267	U	2012-06-25	ES1077267U



Abstract

(WO2013/178842)

The invention relates to a supporting element for heels, which can be applied to the heels (4) of shoes (6) with heels. The supporting element consists of a plastic part in the form of an upwardly open tubular body (2) having a blind inner cavity that can receive, and be fitted to, the lower end of the heel (4). The lower end of the tubular body (2) includes a base (5) that projects peripherally from the body, said base having a diameter greater than that of the supporting base of the heel (4).

Inventors

MARTINEZ ROJO RAQUEL

NUNEZ DALY FELIX

BUENO MARTIN EDUARDO

Latest standardized assignees - inventors removed

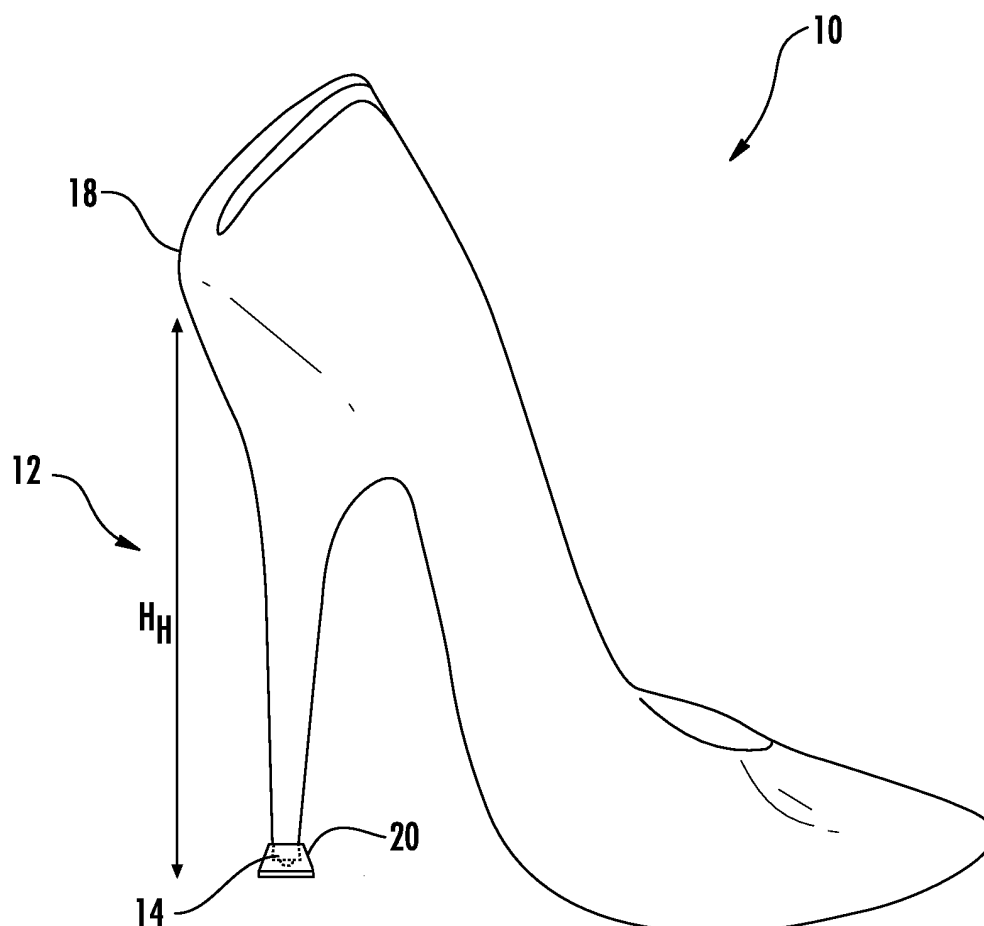
LLELLE ACCESORIOS

Family 18/432 - FAMPAT - ©Questel

Title

(US20140259803)

High heel tip covering device and related methods

Images**Publication data including kind & date**[US20140259803](#)

A1 2014-09-18

US20140259803

**Abstract**

(US20140259803)

A high heel tip covering device and related method are disclosed. In one aspect, the high heel tip covering device includes a body having an upper surface, a lower surface, exterior lateral side surfaces disposed between the upper and lower surfaces, and an aperture provided within the upper surface of the body and substantially centrally disposed between the exterior lateral side surfaces. The aperture can elastically conform to external contours of a high heel tip when the high heel tip is inserted within the aperture. In other aspects, the high heel tip covering device further includes a notch disposed on a bottom surface on the aperture, where the notch is configured to receive an exposed nail protruding from the high heel tip.

Inventors

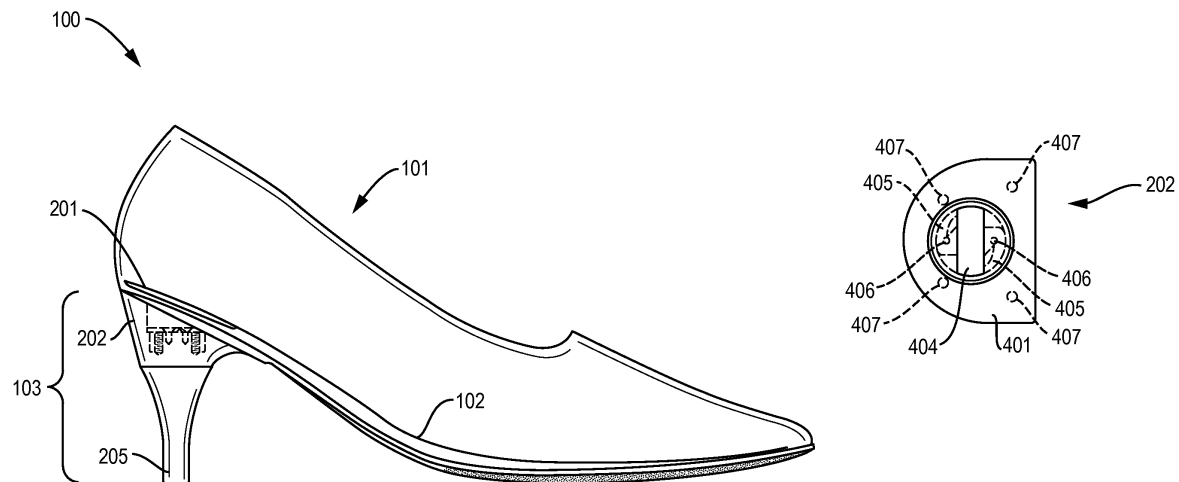
REARDON REBECCA

Family 19/432 - FAMPAT - ©Questel

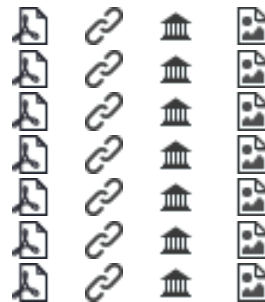
Title

(WO201339805)

Shoe having removable and interchangeable heel assemblies with kit

Images**Publication data including kind & date**

US9009990	B2	2015-04-21	US9009990
US8657110	B2	2014-02-25	US8657110
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US8505218	B2	2013-08-13	US8505218
WO2013/039805	A1	2013-03-21	WO201339805
US20130062231	A1	2013-03-14	US20130062231

**Abstract**

(WO2013/039805)

A removable heel assembly, a shoe having a removable shoe assembly and kit containing a shoe body having a heel base and a plurality a assorted removable and interchangeable heels. The heel assembly includes the heel base and a removable and interchangeable heel. The removability relies upon at east two curved, tapered grooves ending in a dimple. The heel utilizes a locking connector which contains components which fit within a cavity within the heel base and which locks in place upon rotation thereof when the components engage the curved, tapered, grooves and dimple.

Inventors

ANGIULO BARBARA-JAY

RODRIGUES MICHAEL P

Latest standardized assignees - inventors removed

BARBARA JAY S

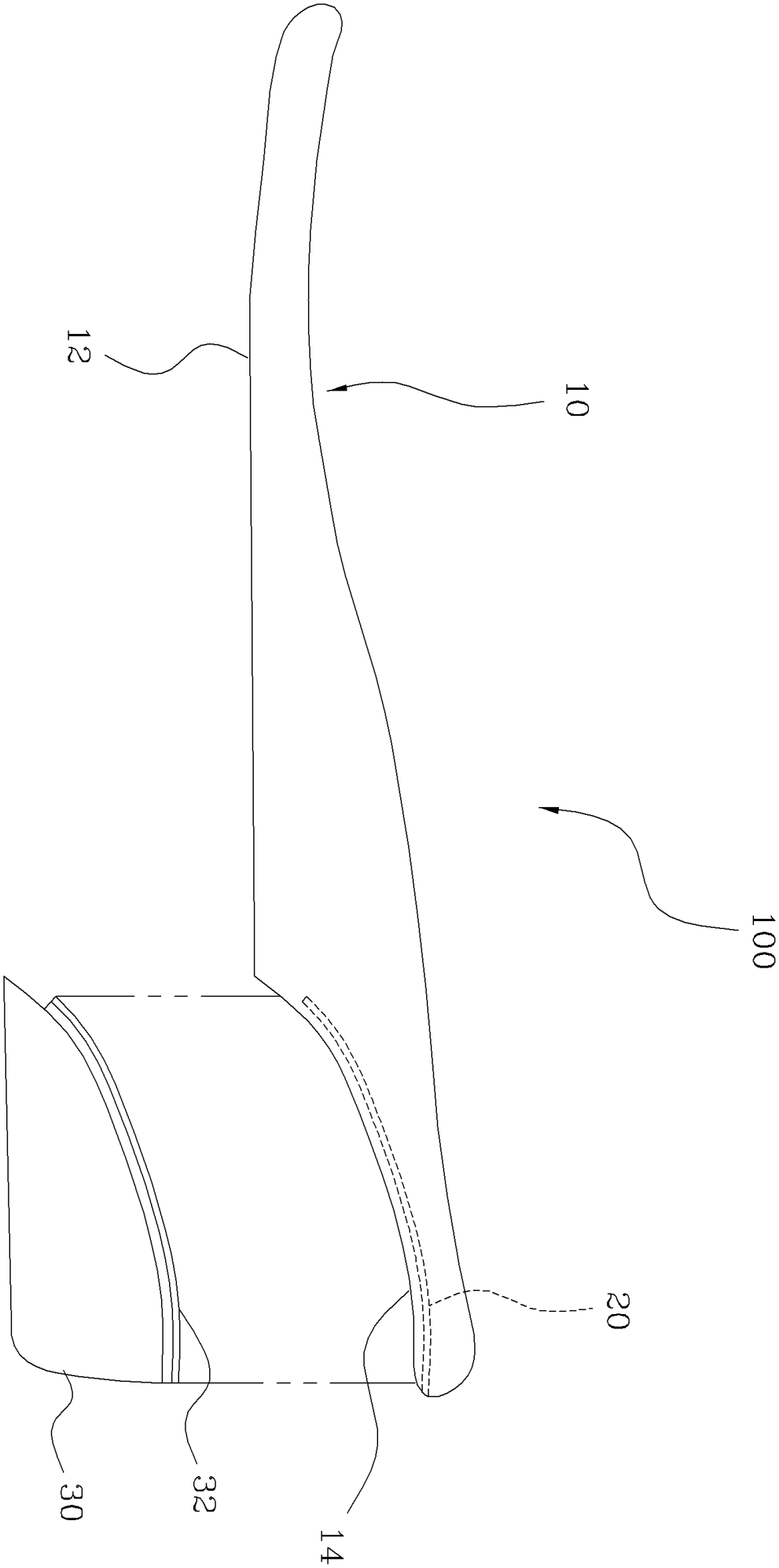
Family 20/432 - FAMPAT - ©Questel

Title

(KR200428437U)

Out-sole having divisible heel of a shoe

Images



Publication data including kind & date

KR200428437 Y1 2006-10-12 KR200428437U

**Abstract**

(KR200428437)

The present invention relates to a detachable heel to a shoe sole, the sole of the user and supporting structure, the bottom flat portion formed in the horizontal direction, the flat portion bent upward from the circular arc shape having a curved portion of the body member, the bent portion of the body member is positioned on top of, the body member to a uniform depth in the pipe and, wherein the detachable groove formed in parallel with the bent portion, and then shrink elastically return to the original position and is made of a material, the body member to be removably coupled, said flexure having a corresponding curved portion and an arc shape, the curved surface portion projecting from the detachable groove in the removable groove and is accommodated with its detachment projection coupled to the heel member as the, a heel member can be removed by the working power capable of being used as a health shoes, the heel of the shoe attachment member used in general when the heel member is elastically contracts thereby to absorb the impact generated during walking and at the same time to enhance the strength can be effect.

Inventors

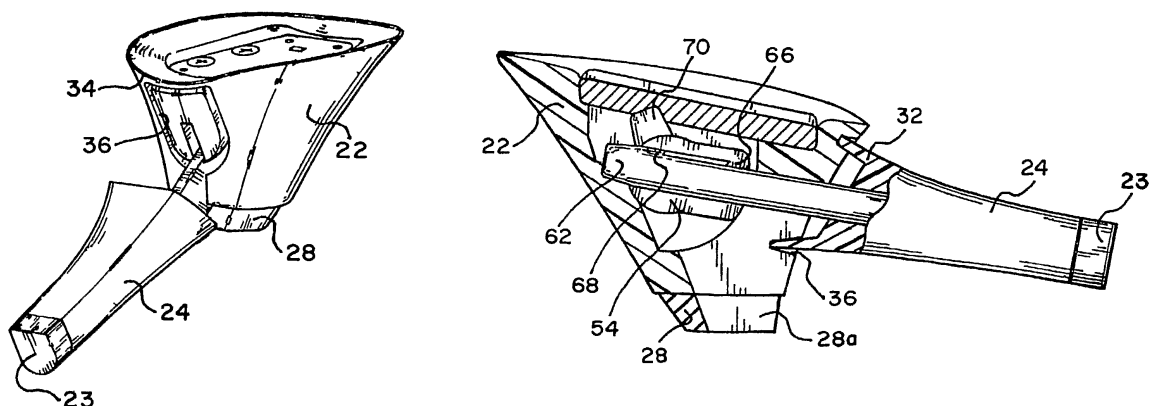
LEE, TAE-SUNG

Family 21/432 - FAMPAT - ©Questel

Title

(EP1871190)

Adjustable height high heel shoe

Images**Publication data including kind & date**

TWI544877	B	2016-08-11	TWI544877
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KR20080009722	A	2008-01-29	KR20080009722				
EP1871190	A1	2008-01-02	EP1871190				
WO2006/113574	A1	2006-10-26	WO2006113574				
AU2006236536	A1	2006-10-26	AU2006236536				
CA2605181	A1	2006-10-26	CA2605181				

Abstract

(EP1871190)

A shoe (10) which has a sole (12) with a toe portion (14), a heel portion (16) and an arch portion (18) located between them. A two part heel (20) which has a low heel block (22) attached to the heel portion of the sole and includes a slot (42) formed therein. A high heel extension piece (24) is attached to the low heel block through a support beam (38) having a substantially rectangular cross-section. The support beam (38) is capable of limited axial and pivotal movement within slot. The dimensions of the support beam (38) and the slot (42) prevent rotational movement of the high heel extension piece (24) about its central axis. The high heel extension piece (24) can be pivoted relative to the sole (12) between a first position wherein it underlies and is in alignment with the low heel block (22) and a second position wherein it lies substantially beneath the arch portion (18) of said sole. The bottom of the low heel block has a low heel lift (28) that extends downwardly and engages the ground when the high heel extension piece (24) is stowed. This low heel lift (28) is completely enclosed and hidden by a beveled edge (32) at the top of the high heel extension piece (24) when it is in its vertical position high heel. A detent in the form of a spring biased ball (74) incorporated within a rotatable slotted pivot (52) and a depression (78) in the support beam (38) maintain the high heel extension piece (24) in the desired position.

Inventors

HANDEL DAVID

WHITE IAN

WHITE DAVID

Latest standardized assignees - inventors removed

CAMILEON HOLDINGS

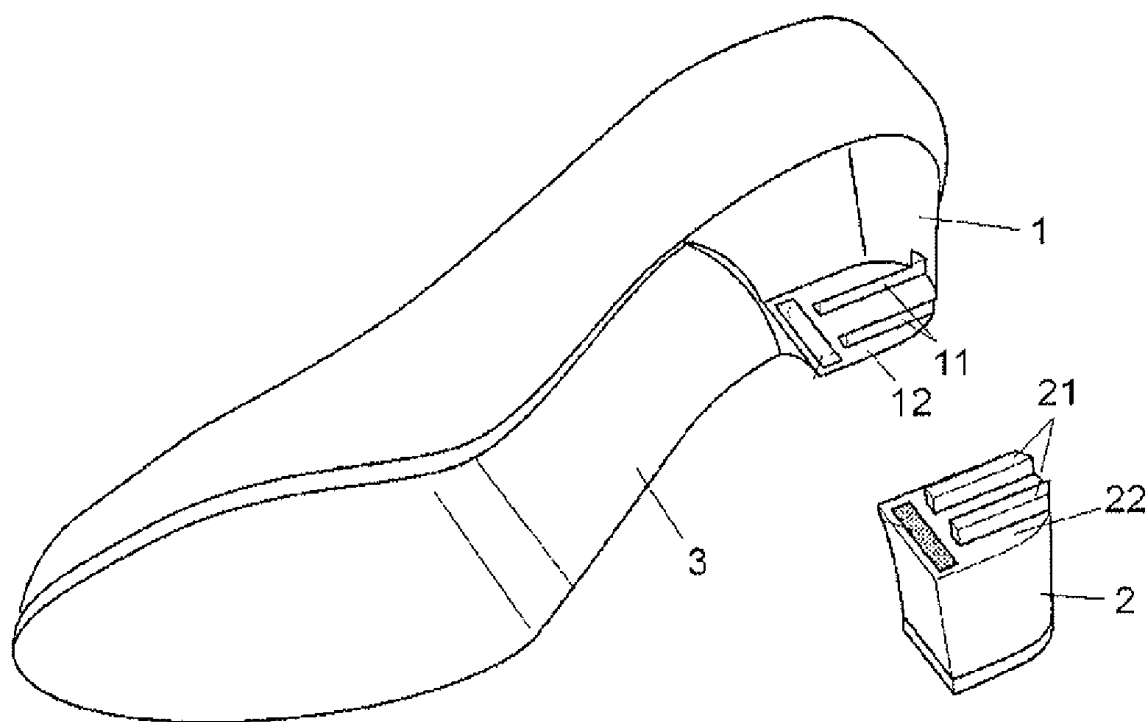
Family 22/432 - FAMPAT - ©Questel

Title

(FR2980080)

Double height heel for sole of shoe for woman, for use during e.g. ceremony, has fixing unit for fixing removable and fixed parts in interlocking position, where removable part forms extension or complement height of fixed part

Images



Publication data including kind & date

FR2980080	B3	2013-12-13	FR2980080
FR2980080	A3	2013-03-22	FR2980080
ES1075586	Y	2012-01-31	ES1075586Y
ES1075586	U	2011-11-03	ES1075586U



Abstract

(FR2980080)

The heel has a fixed part (1) integral with a sole (3), and a removable part (2). The fixed part and the removable part have surfaces (12, 22) provided with opposed complementary guides (11, 21), and a fixing unit for fixing the parts in an interlocking position, where the removable part forms an extension or complement height of the fixed part. The fixing unit includes two magnetic parts fixed at respective fixed and removable parts of the heel, where the complementary guides are placed horizontally and have a variable cross-section in a vertical direction.

Inventors

GUTIERREZ MARTIN FRANCISCA

Family 23/432 - FAMPAT - ©Questel

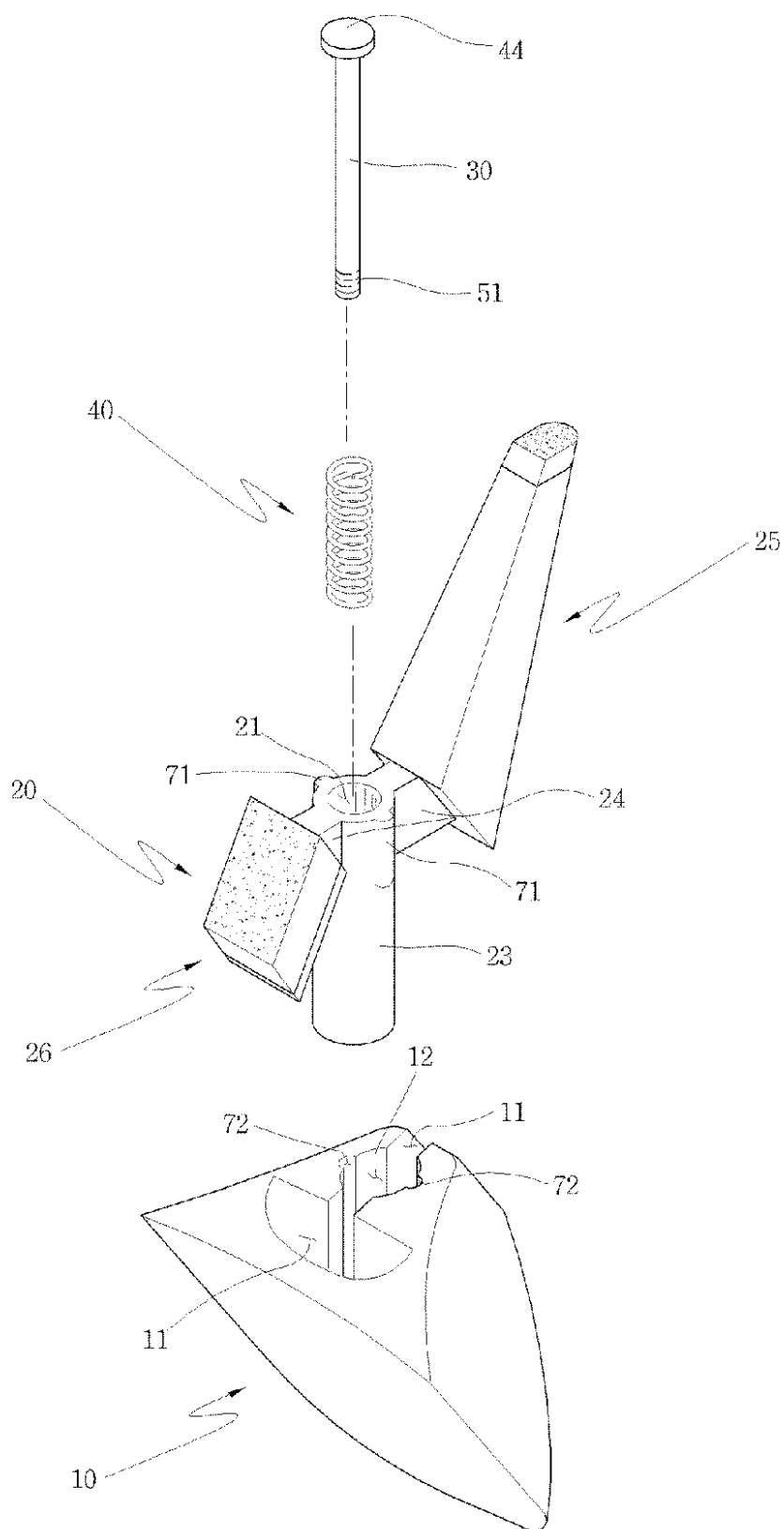
Title

(WO201105033)

Height-adjustable shoe heel

Images

[Fig. 1]



Publication data including kind & date

WO2011/005033 A3 2011-06-03 WO201105033

WO2011/005033 A2 2011-01-13 WO201105033



[KR100933051](#)

B1 2009-12-31 KR100933051

**Abstract**

(WO2011/005033)

The present invention relates to a height-adjustable shoe heel, which enables a shoe to have various heights using a single heel. More particularly, the present invention relates to a height-adjustable shoe heel configured such that a low heel and a high heel arranged at the left and right sides of a rotary rod, respectively, are selectively employed by rotating the rotary rod inserted in a heel body serving as the shoe heel. The angle between the rotary rod and a support coupled to the rotary rod is perfectly maintained at 90 degrees to enable the easy rotation of the rotary rod. The low heel and the high heel protruding from both ends of the support, respectively, are maintained at a predetermined angle to provide comfort to a wearer of the shoe.

Inventors

YUN MYUNG-EON

Latest standardized assignees - inventors removed

YUN MYEONG EON

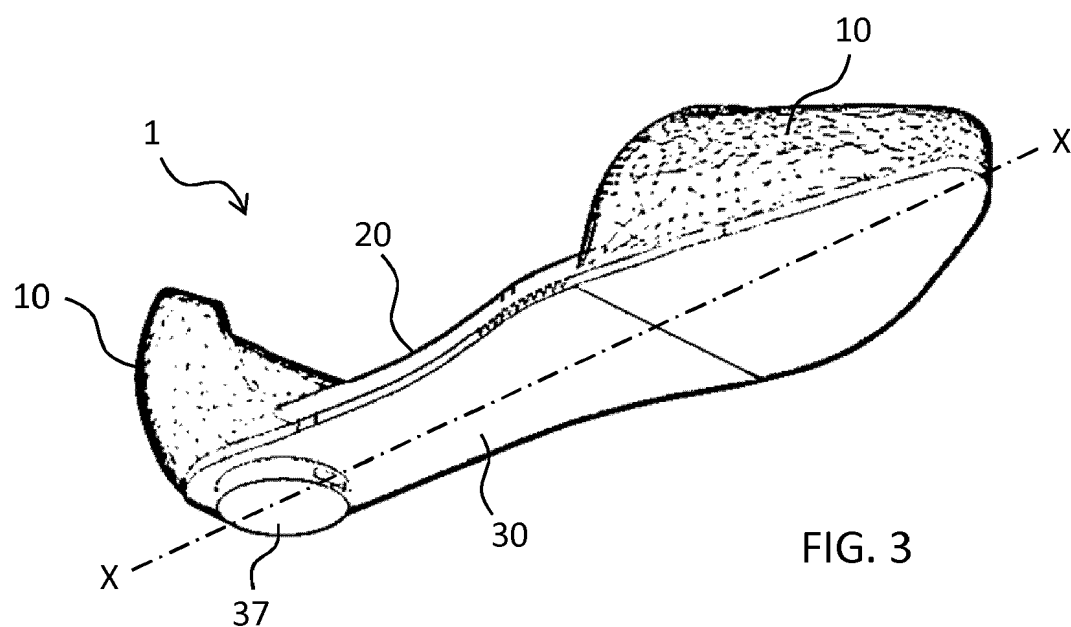
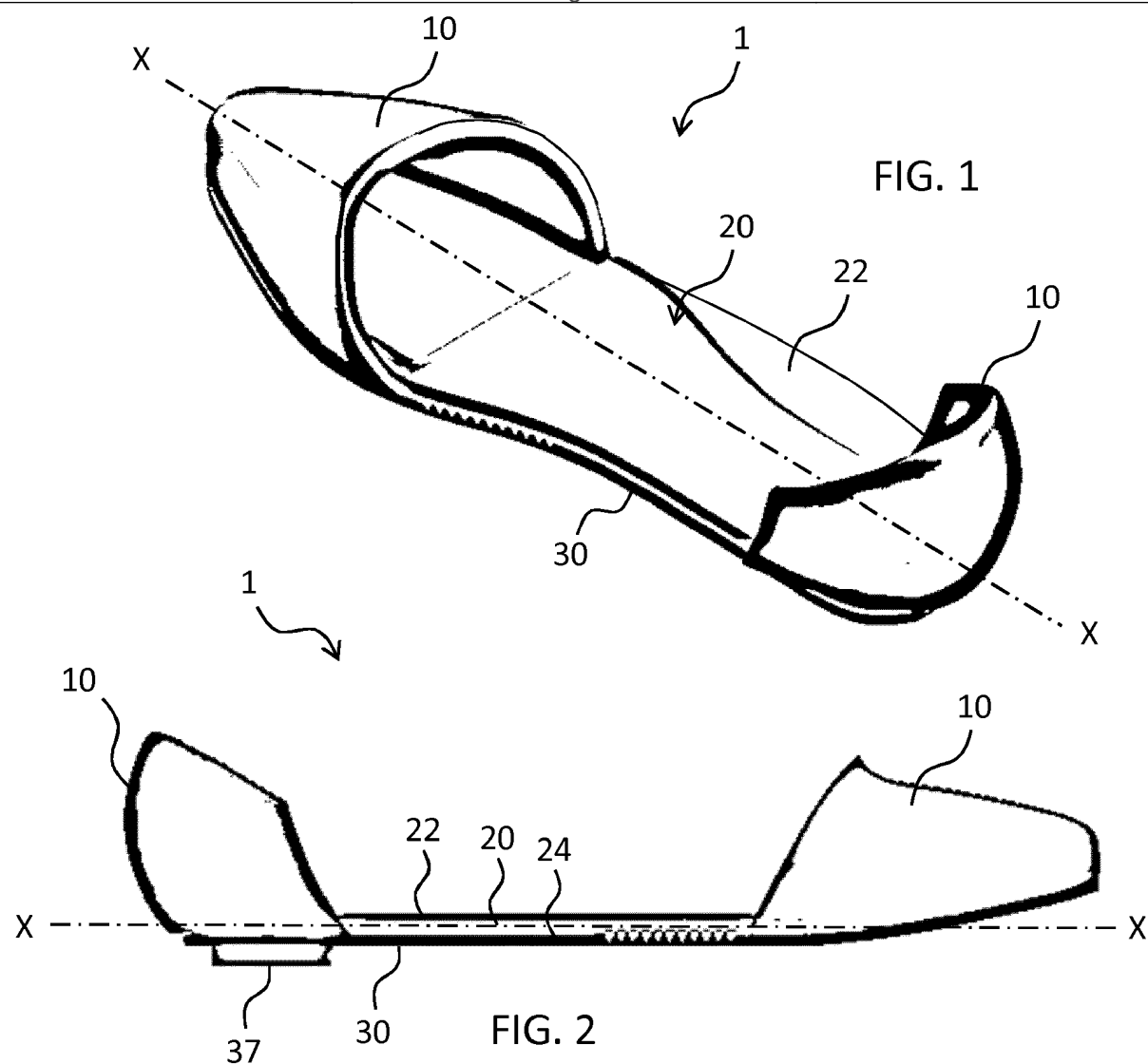
Family 24/432 - FAMPAT - ©Questel

Title

(EP3177167)

Detachable shoe heel and shoe designed to receive such a heel

Images



CN107072347

B 2019-04-05 CN107072347B

ES2674403

T3 2018-06-29 ES2674403

PT3177167

T 2018-06-21 PT3177167T

TR201807969

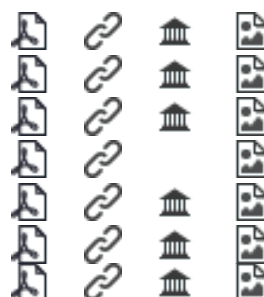
T4 2018-06-21 TR201807969

EP3177167

B1 2018-03-21 EP3177167

FR3039750

B1 2017-09-01 FR3039750



CN107072347	A	2017-08-18	CN107072347
EP3177167	A1	2017-06-14	EP3177167
FR3039750	A1	2017-02-10	FR3039750
WO2017/021472	A1	2017-02-09	WO201721472

**Abstract**

(EP3177167)

The invention relates to a sole (30) of a shoe, which can be mounted on the entire lower surface of a midsole of a shoe, said sole (30) defining a housing for receiving a shank and comprising, on its lower rear part (33A), a supporting projection (37) which is designed both to allow walking when said sole (30) is mounted on the midsole and to receive a detachable heel.

Inventors

BRUNONE CELINE

BEN YAKHLEF EMIR

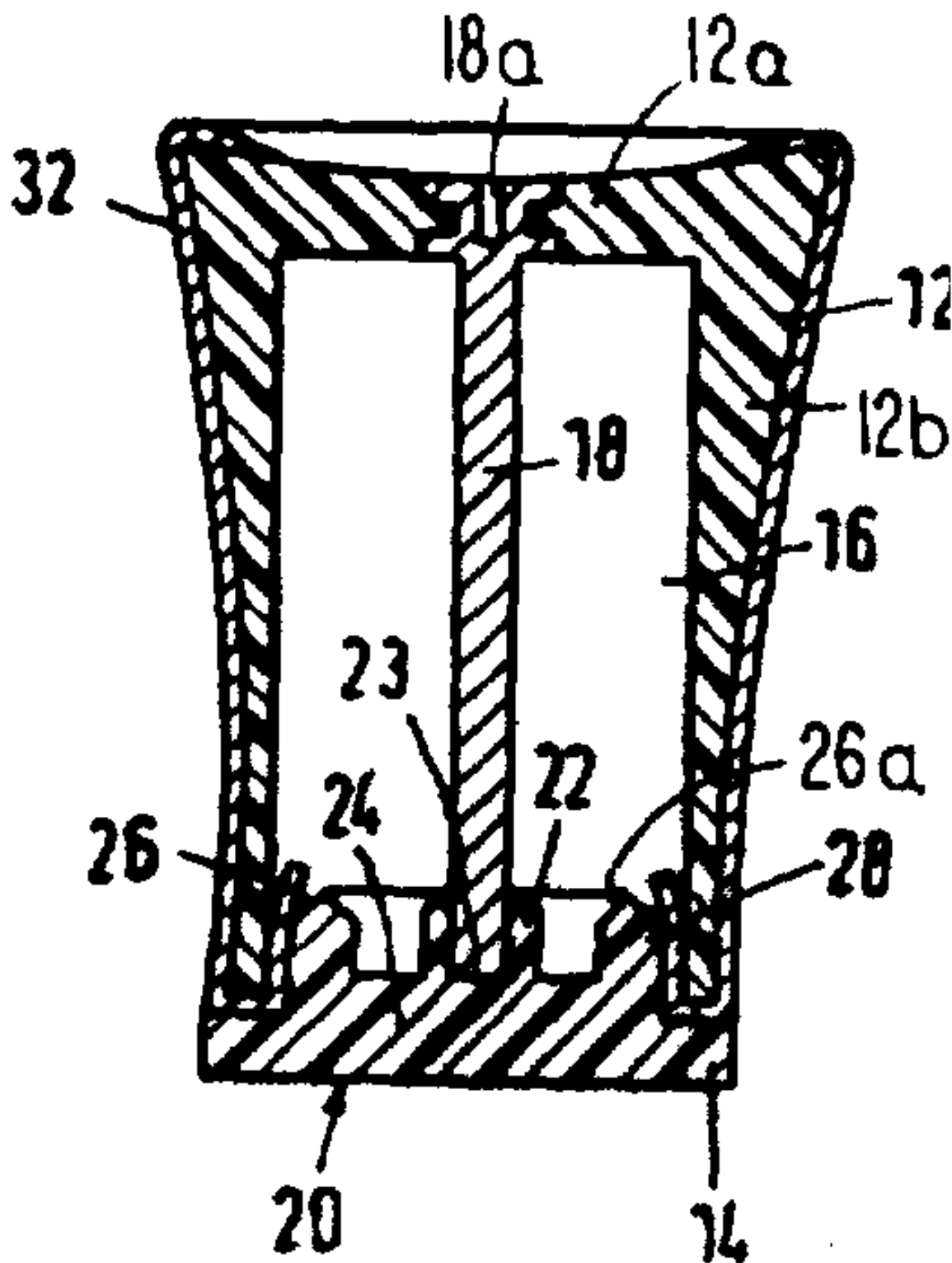
Family 25/432 - FAMPAT - ©Questel

Title

(EP--56278)

Coatable shoe-heel and top piece therefor

Images



Publication data including kind & date

BR8200117	A	1982-11-03	BR8200117
EP0056278	A3	1982-10-20	EP--56278
EP0056278	A2	1982-07-21	EP--56278



Abstract

(EP0056278)

In a coatable shoe heel having a heel shell (12) which possesses at the end remote from the shoe an aperture which is adjoined by a cavity (16) containing at least one support pin (18) projecting with its free end towards the aperture, and having a heel patch (14) which can be attached at the open end of the heel shell, closes the latter, forms a walking surface (20) and has, on the side remote from the latter, a projecting part whose outer edge substantially has the shape of the

aperture of the heel shell, and possesses a part (22) which forms a recess accepting the end of the heel pin (18), the projecting part is formed by a strip-like projection (28) which is preferably at least about 4 mm high and provided with a chamfer which declines towards the outside in order to facilitate the insertion of the heel patch in the heel shell with the correct orientation and to prevent damage to the heel in the event of an attempt to press into the aperture of the heel shell a heel patch which has been positioned with slight twisting. Heel patches to repair such shoe heels possess at least three strip-like projections on the side remote from the walking surface, each of which extend from a point within this side towards the edge of the heel patch. These strip-like projections are trimmed to size by the cobbler so that they can be press-fitted into the aperture of the shoe to be repaired and the support pin or pins of the heel shell, which is or are standardised in respect of size and arrangement, can be introduced into the bush-like part or parts of the heel patch.

<IMAGE>

Inventors

SCHALPER, LEOPOLD

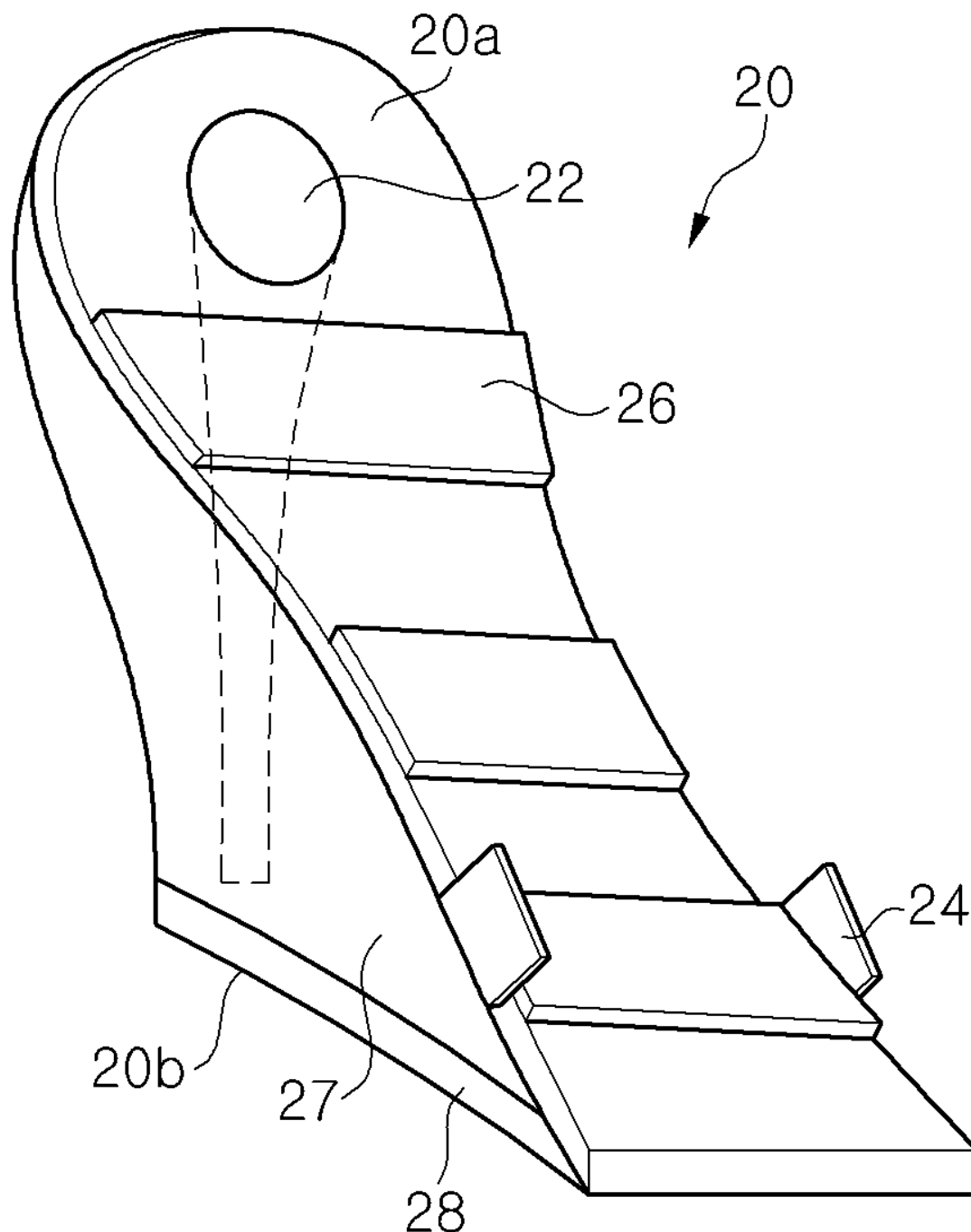
Family 26/432 - FAMPAT - ©Questel

Title

(KR101247657)

Removable wedge hill

Images



Publication data including kind & date

[KR101247657](#)

B1 2013-04-01 KR101247657

[KR20120135592](#)

A 2012-12-17 KR20120135592



Abstract

(KR20120135592)

PURPOSE: A detachable wedge heel without change of structure of a high heel shoe is provided to selectively use a high heel shoe and a wedge heel shoe by attaching or detaching the wedge heel.

CONSTITUTION: A detachable wedge heel without change of structure of a high heel shoe comprises an upper slope(20a), a bottom side(20b), and a heel insert hole(22). The upper slope corresponds to the bottom slope of a high heel shoe. The bottom side crosses the upper slope to touch the ground. A heel insert hole is formed from the upper side of the upper slope toward the bottom side. The heel insert hole can be attached to the heel of the high heel shoe.

COPYRIGHT KIPO 2013

Inventors

JANG, MYUNG-HO

Family 27/432 - FAMPAT - ©Questel

Title

(WO2015128530)

Shoe with replaceable parts

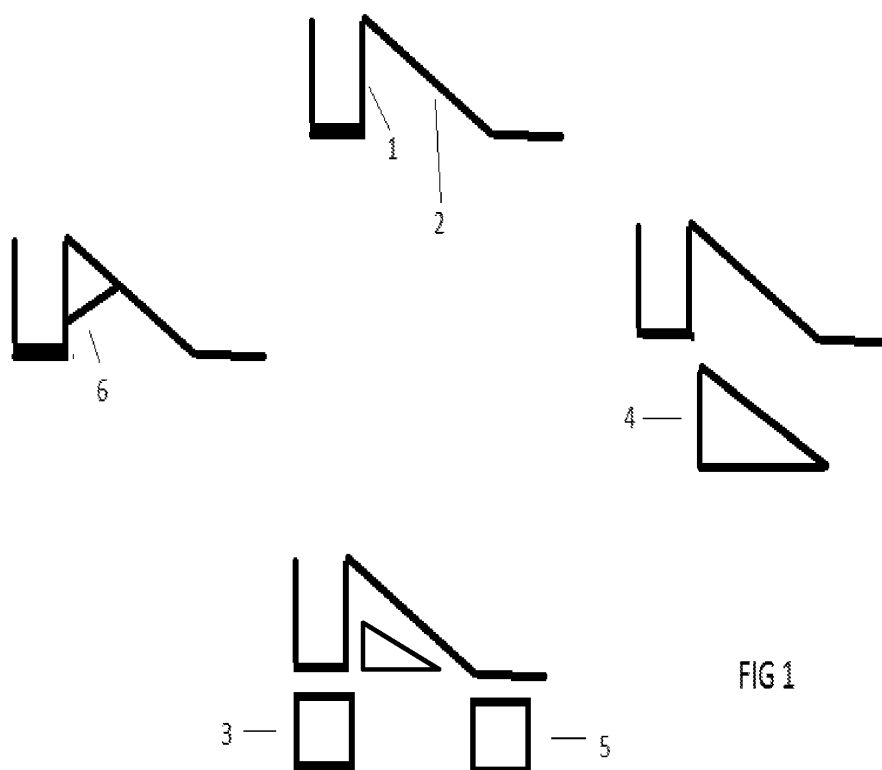
Images

FIG 1

Publication data including kind & date

WO2015/128530 A1 2015-09-03 WO2015128530

ES1122730 Y 2014-12-09 ES1122730Y

ES1122730 U 2014-09-16 ES1122730U

**Abstract**

(WO2015/128530)

The invention relates to shoes with replaceable parts. The shoes are characterised in that the heel and the shank of the shoe have fastening means for joining replaceable parts, said fastening means preferably being magnetic. The appearance of the shoes according to the invention is modified by the coupling of various replaceable functional or ornamental elements to the shoe.

Inventors

CAÑIZARES VERDETE JUAN JOSÉ

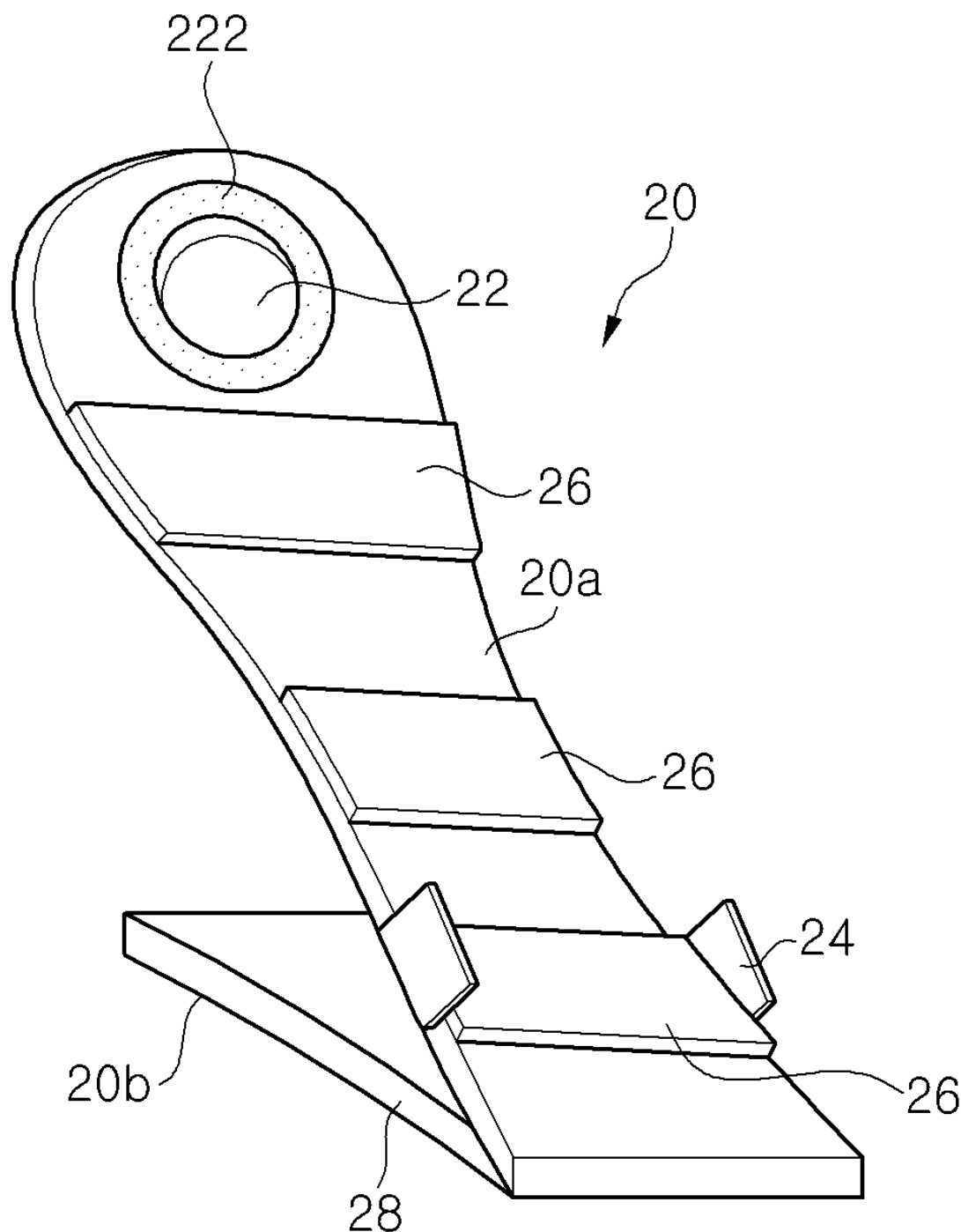
Family 28/432 - FAMPAT - ©Questel

Title

(KR20130004652)

Removable elastic heel and high-heeled shoes with the same capable of improving user convenience

Images



Publication data including kind & date

[KR20130004652](#)

A

2013-01-14

KR20130004652



Abstract

(KR20130004652)

PURPOSE: A removable elastic heel and high-heeled shoes with the same are provided to improve the comfort of a wearer and beautiful design of the high-heeled shoes.

CONSTITUTION: A removable elastic heel comprises a plate shaped slope part(20a) which is connected to incline forward, a plate shaped bottom part(20b) which is bent at a designated angle and is extended in the horizontal direction, a heel insertion hole(22) which is formed in the upper part of the slope part, and a pair of transparent fixing clips(24) which is installed on both sides of the bottom of the upper slope and touches both sides of the bottom of shoes.

COPYRIGHT KIPO 2013

Inventors

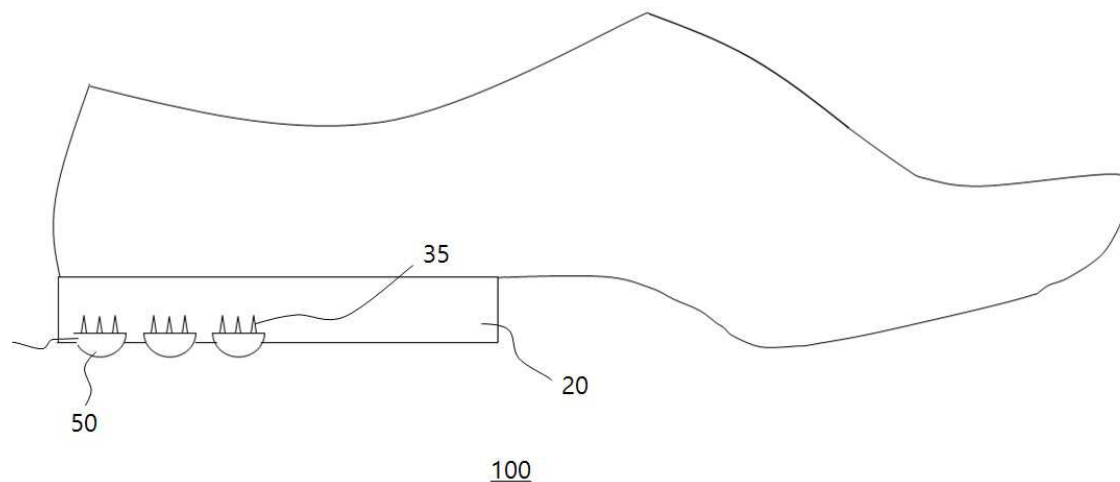
JANG, MYUNG-HO

Family 29/432 - FAMPAT - ©Questel

Title

(KR20170119800)

An auxiliary heel for heel of shoe

Images**Publication data including kind & date**[KR20170119800](#)

A

2017-10-30

KR20170119800

**Abstract**

(KR20170119800)

The present invention relates to an auxiliary heel for a shoe heel, which prevents shoe heels from wearing off and has a hemispheric shape, and in particular, to an auxiliary heel for shoes, work shoes, hiking shoes and sneakers (hereafter, referred to as "shoes"), wherein a plurality of the auxiliary heels can be attached to or detached from a heel. The auxiliary heel of the present invention comprises: a plurality of conic protrusions formed on a plane portion of a hemisphere-shaped auxiliary heel with a bottom surface of the cone of a certain diameter and a height of a certain length; a ground portion formed when the protrusions are connected to one another to make an integrated form and the hemisphere-shaped surface without the protrusions comes into contact with the ground; and a slip prevention means formed on the surface of the ground portion to prevent a heel from slipping. In addition, the auxiliary heel can be used to a shoe having a plurality of circular grooves with certain depth at a certain position of a shoe heel having a same area with the plane portion of the auxiliary heel so that the plane portion of the auxiliary heel is stuck tightly into the shoe heel to reinforce strength of attachment to a shoe heel and some of the ground portion projects over the surface of a shoe heel when the auxiliary heel is attached.

COPYRIGHT KIPO 2017

Inventors

LIM, JEONG DO

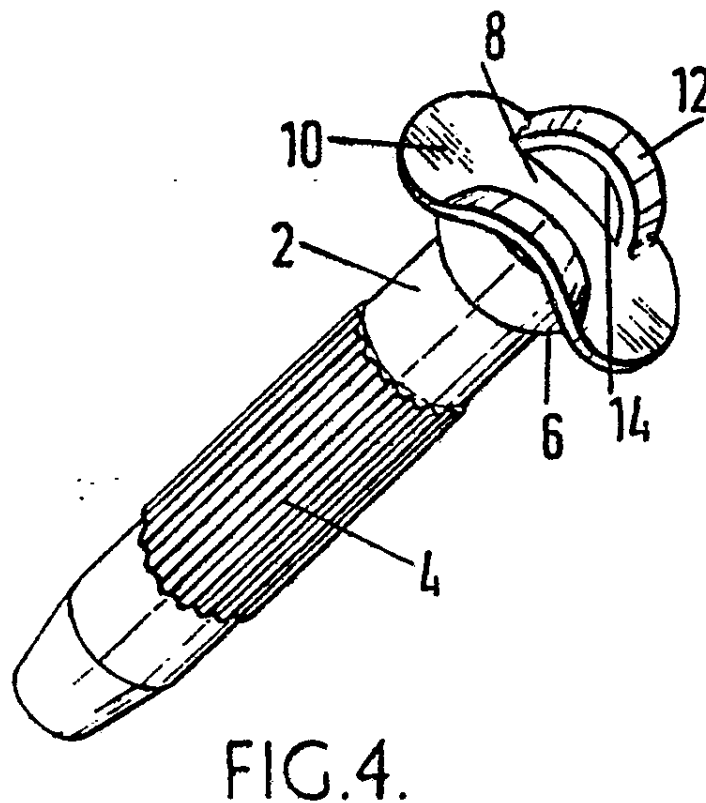
Family 30/432 - FAMPAT - ©Questel

Title

(GB2076632)

Fastening footwear heel top pieces

Images

**Publication data including kind & date**[GB2076632](#)

A 1981-12-09 GB2076632

**Abstract**

(GB2076632)

A fastener device comprises a stem portion (2) for insertion into a reinforcing member of a heel unit and a head portion (8) to be embedded in plastics material forming a heel top piece, said head portion comprising a substantially disc-like member with at least one portion raised out of the radial plane of the remainder disc so as to form a free-standing loop (12), there being provided a slit or other aperture (14) in the disc defining one edge of said loop (12) and through which, in use, plastics material may flow. A method of forming the head portion (2) into the loops (12) is also disclosed involving a die having ridges upon which the loops are formed by use of a punch. <IMAGE>

Latest standardized assignees - inventors removed

ABBEY PLASTICS

Family 31/432 - FAMPAT - ©Questel

Title

(FR-712860)

Removable heel

Publication data including kind & date[FR712860](#)

A 1931-10-14 FR-712860

**Inventors**

HAMMER CARL

Family 32/432 - FAMPAT - ©Questel

Title

(FR-991555)

Removable heel pad for of shoe heels, boots, etc.

Publication data including kind & date

[FR991555](#) A 1951-10-08 FR-991555

**Inventors**

STERN NORMAN

Family 33/432 - FAMPAT - ©Questel

Title

(EP2412261)

Shoe, in particular ladies shoe, and heel cover for a shoe

Images

cover plates cover the side surface of heel. The heel cover plates are formed plate-shaped. The surface of a heel cover plate is tapered from top to bottom. An independent claim is also provided for the heel cover plates have decorative elements.

Inventors

MUELLER ANDREAS

Latest standardized assignees - inventors removed

MUELLER ANDREAS

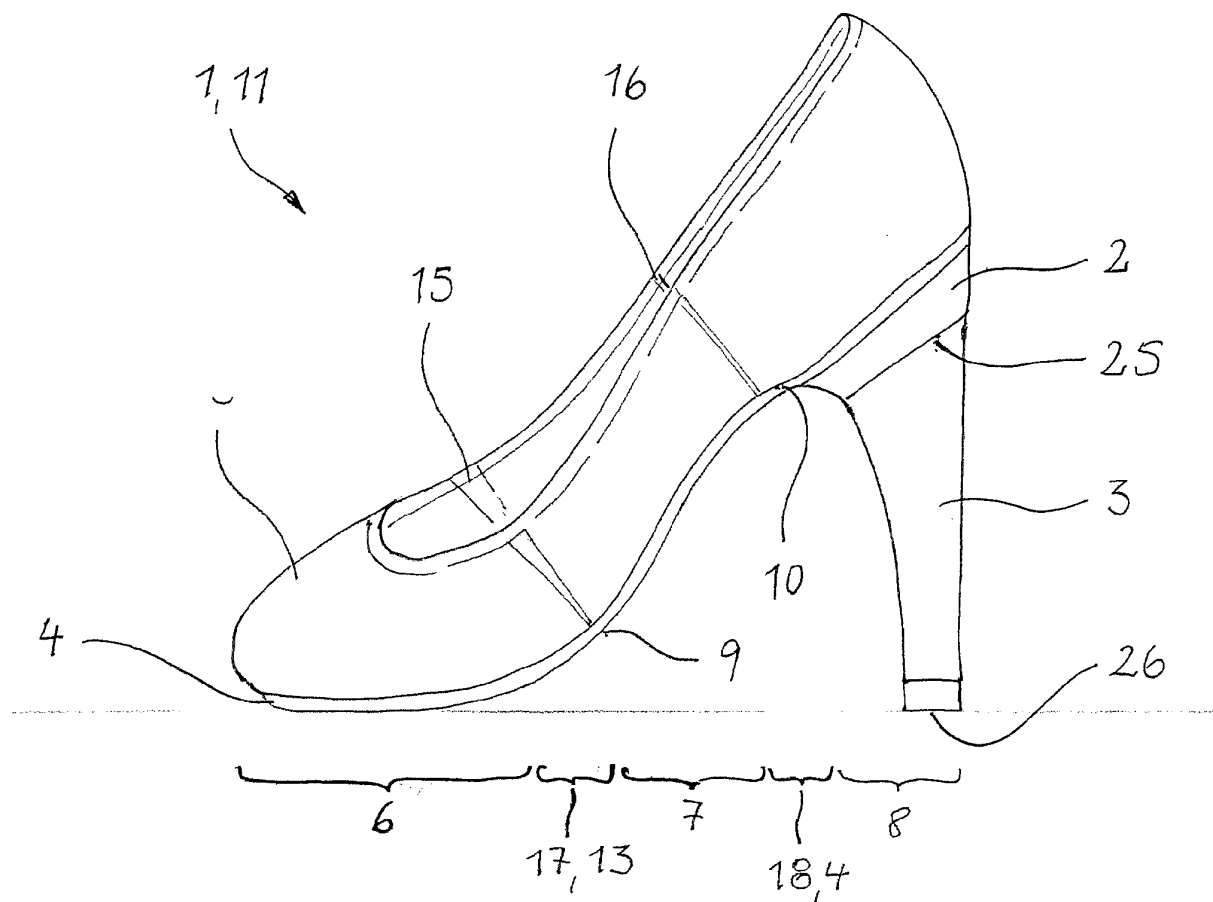
Family 34/432 - FAMPAT - ©Questel

Title

(DE102013215964)

Interchangeable shoe heel height-adjustable

Images



Publication data including kind & date

DE102013215964

A1 2015-02-19 DE102013215964



Abstract

(DE102013215964)

For illustration shows 7ref according to the prior art (3) (5) a reference (1) flat coil, in addition to the interior (15)of the flat coil (6)@num@ (2)via a further via (7) @num@ shown for electrically connecting flat coils arranged (17) above and below said (6) (7) other flat coil is present ., and/or the presence of a step (2)that a rear of the (8) shoe sole (2)is an internal thread (19), wherein said removable shoulder (3)a corresponding outer threaded and (21) rotated about a longitudinal axis (24) of the outer thread (21) is positively connected to the shoe (1), and in a final position of the replaceable heel (3)force transmission between the shoulders (2, 3) allowing freedom of movement takes place and no . (1)

Inventors

DOGU EROL

Family 35/432 - FAMPAT - ©Questel

Title

(KR20120057471)

Replaceable heel capable of easily replacing heels whenever and wherever without using any tool

Images**Publication data including kind & date**[KR20120057471](#)

A

2012-06-05

KR20120057471

**Abstract**

(KR20120057471)

PURPOSE: A replaceable heel is provided to facilitate replacement of heels.

CONSTITUTION: A replaceable heel comprises a pillar part(200), a shoes body(100) which supports weight of a wearer, and a heel(300) which is in contact with floor. A male screw(110) is attached to lower bottom of the shoes body in order to be fixed. The male screw can be replaced by molding around an upper groove(210), and a lower groove(220).

COPYRIGHT KIPO 2012

Inventors

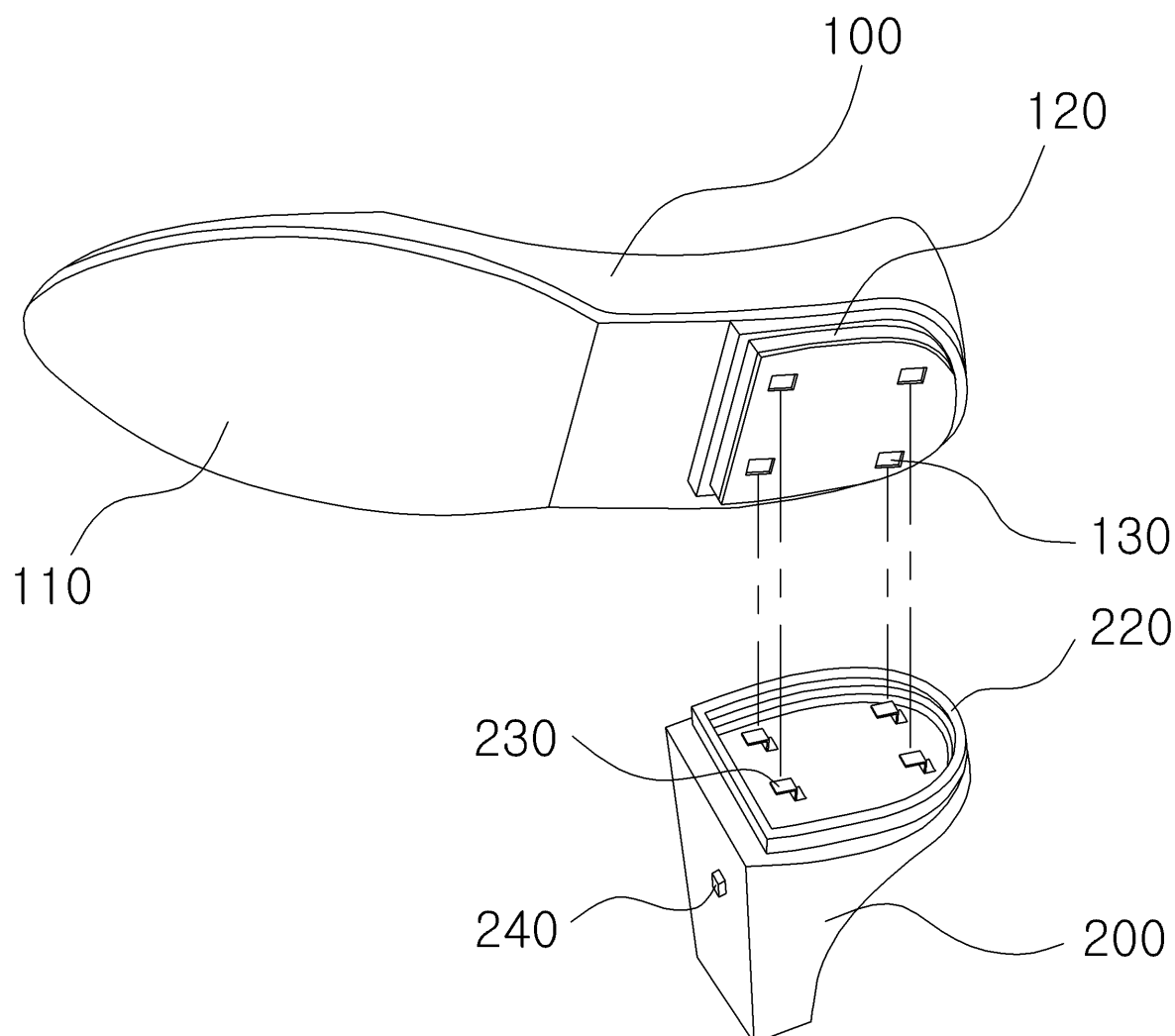
LI, YU MI

Family 36/432 - FAMPAT - ©Questel

Title

(KR200400105U)

Shoes with a removable back hoof

Images**Publication data including kind & date**[KR200400105](#)

Y1

2005-11-02

KR200400105U



Abstract

(KR200400105)

The present invention relates to a removable shoe heel, the heel (200) of the shoe and heel body (100) detachably attached to the shoe mrctsvngngrewtcy in, the upper end portion of the heel (200) of the plurality of hooks (230) is provided and, at the rear of the bottom (110) of the (100) body of the hook (230) for hooking (140) into or removed respectively corresponding to the groove (130) is formed is characterized. According to the present invention relates to a removable shoe heel, the heel of the shoe and the shoe body at the same time as the heel of the bonding force is enhanced to easily attach and detach the shoe can be a feature that can be recycled.

Inventors

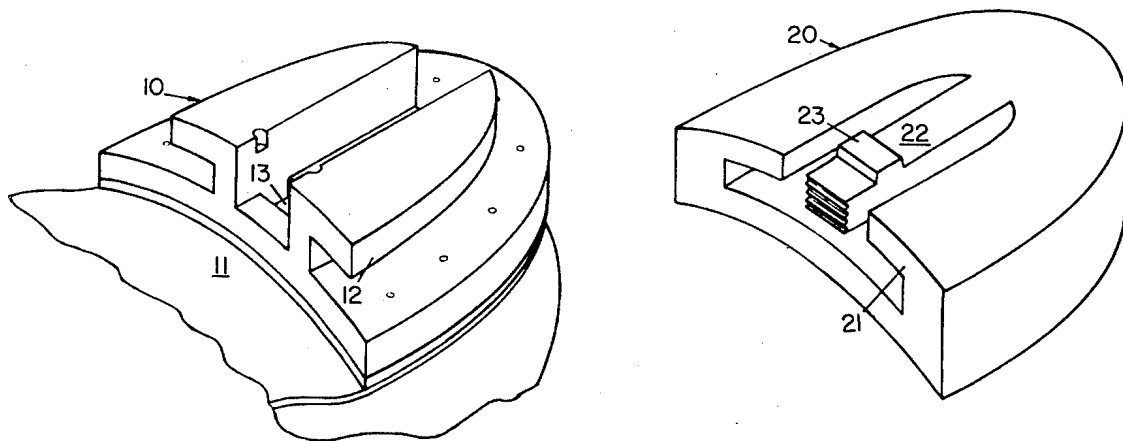
JANG, YUN GYEONG

Family 37/432 - FAMPAT - ©Questel

Title

(US4214384)

Replaceable heel construction for shoes

Images**Publication data including kind & date**[US4214384](#)

A 1980-07-29 US4214384

**Abstract**

(US4214384)

A shoe has a first coupling element secured on a heel portion thereof and a second coupling element, defining a heel thereon, is slidably mounted in interlocking relationship on the first coupling element. A resilient locking tab on the second coupling element engages a locking groove formed on the first coupling element and is held in locked relationship therein by a removable wedge.

Inventors

RICARDO GONZALEZ R

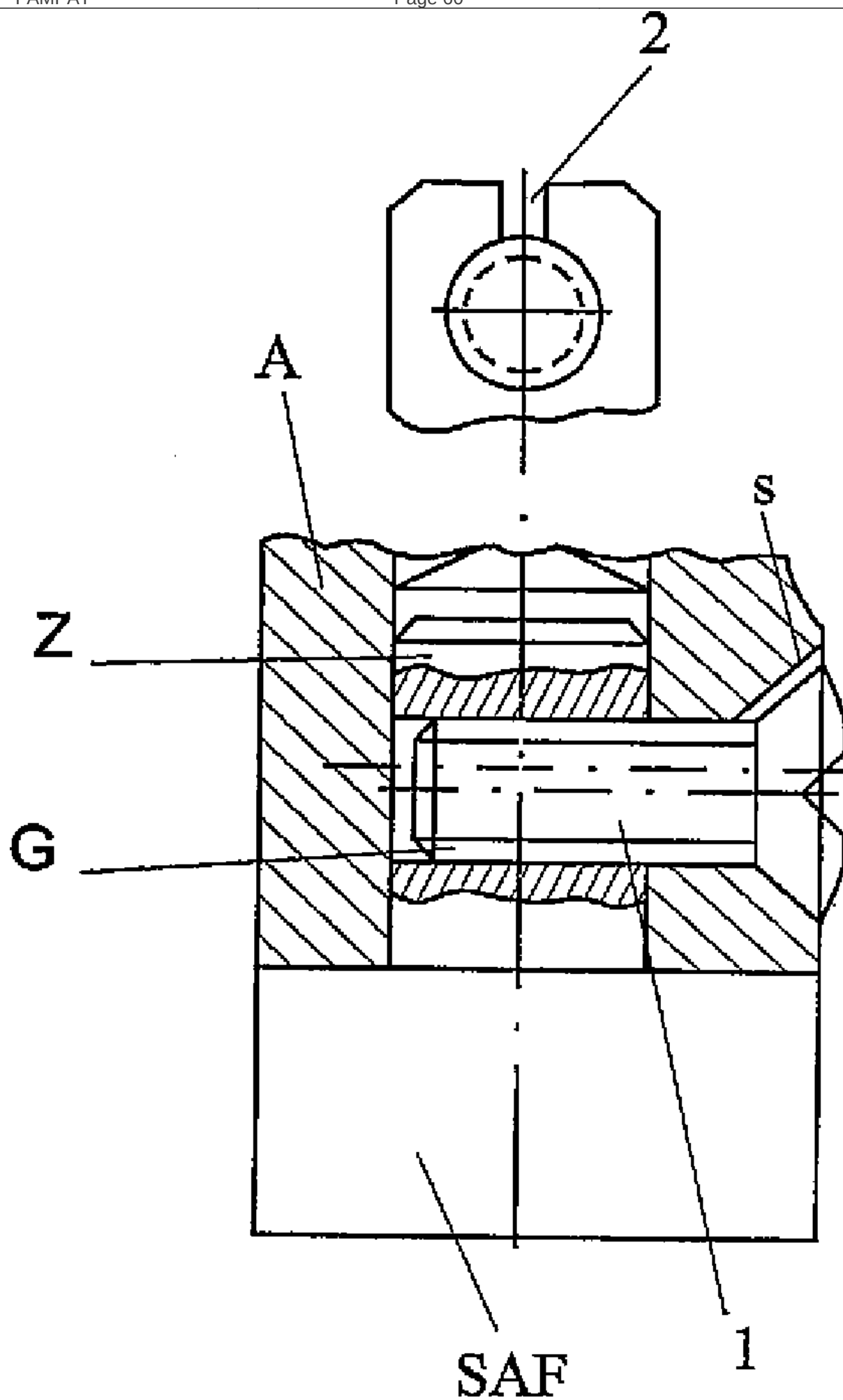
Family 38/432 - FAMPAT - ©Questel

Title

(DE102011103575)

Replaceable heel lift structure for heel of shoe, has security device that is provided with attachment screw that is provided with prevention unit for preventing unintentional removal of screw

Images



Abstract

(DE102011103575)

The structure (SAF) has a heel lift portion that is secured at a heel portion (A) against rotation by a security device. The security device is provided with an attachment screw (8) that is provided with prevention unit for preventing unintentional removal of screw. The attachment element is provided transverse to longitudinal axis of the heel portion. The screw is provided for fastening heel portion at shoe portion. An independent claim is included for a shoe.

Inventors

LEIBER HEINZ

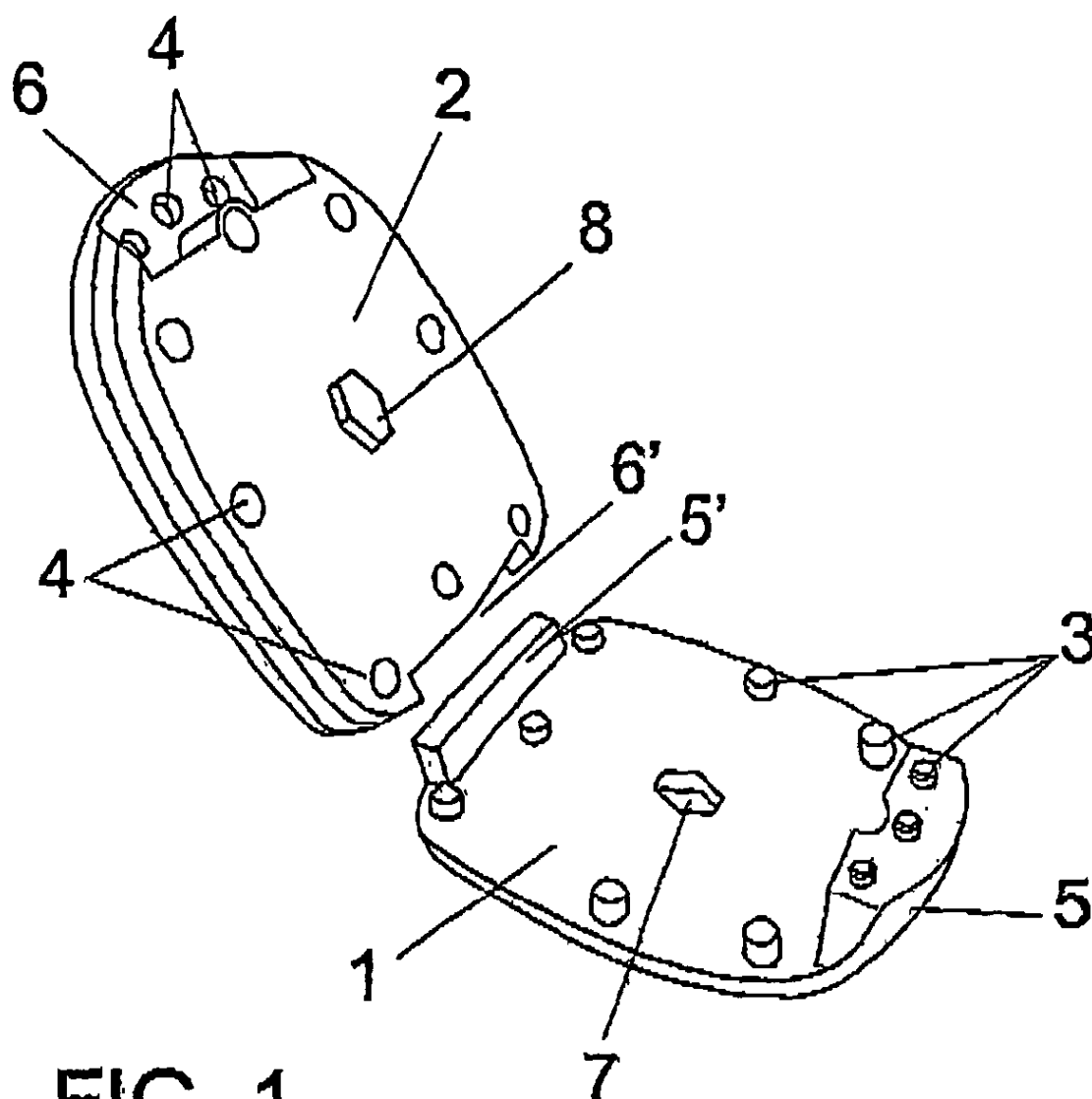
LEIBER KATRIN

Family 39/432 - FAMPAT - ©Questel

Title

(EP2422637)

Attachment system for tips to shoe heels

Images**FIG. 1****Publication data including kind & date**

ES2373849	B1	2012-12-17	ES2373849
EP2422637	A1	2012-02-29	EP2422637
ES2373849	A1	2012-02-09	ES2373849

**Abstract**

(EP2422637)

The system consists of the corresponding tip (1) being provided with protuberances (3) which are housed in and attached to the holes (4) established in a complementary manner in the corresponding heel (2), the attachment being secured by means of nails passing through the tip (1), in correspondence with the protuberances (3), producing an expansion of the latter and their corresponding pressure, adjustment and attachment to the holes (4) of the heel (2). Said tip (1) can include projections (5, 5') which are positioned in recesses or depressions (6, 6'), respectively, established for the purpose in the heel (2), those projections (5, 5') constituting means of protection for the actual heel.

Inventors

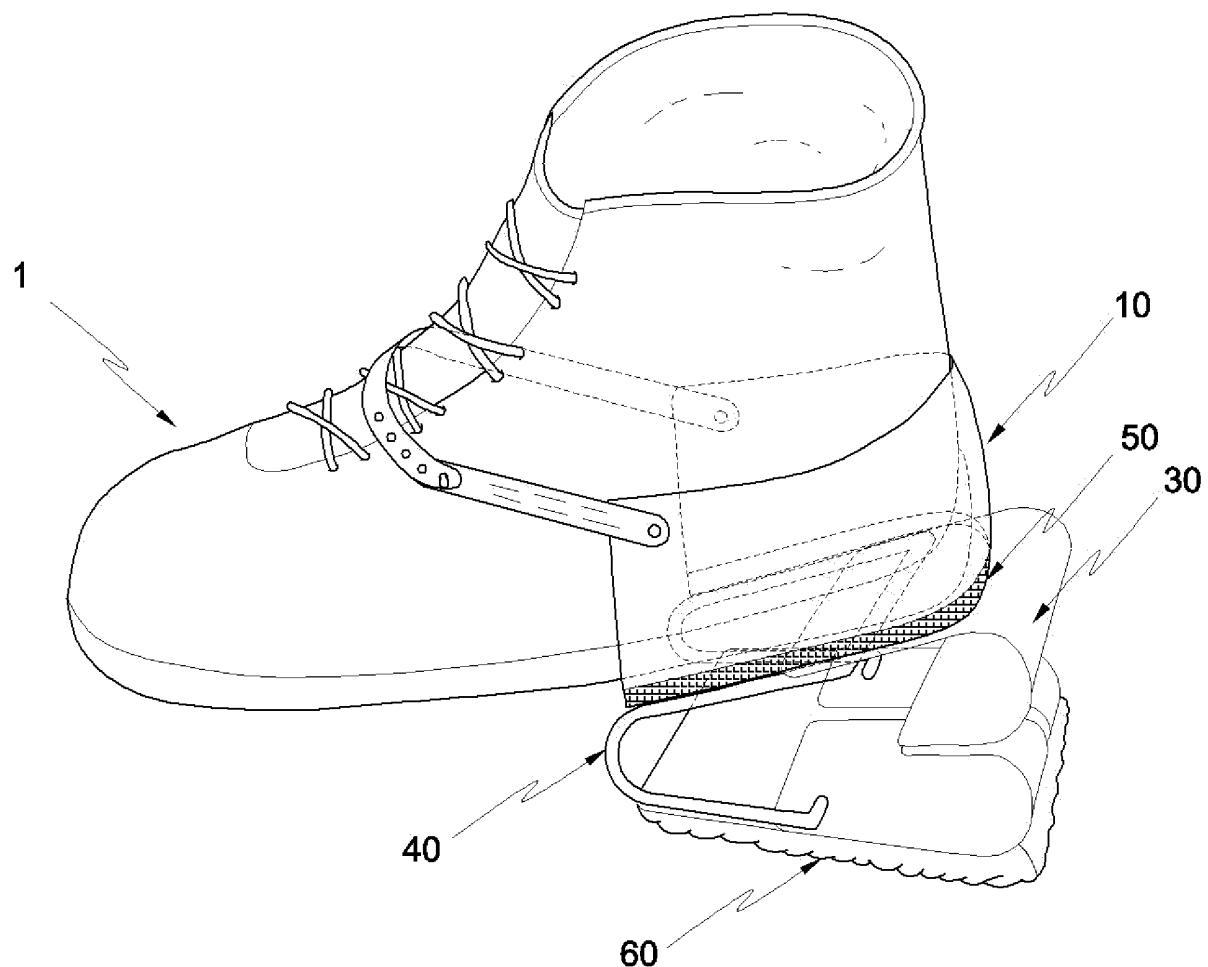
ORTUNO SANTA PEDRO

Family 40/432 - FAMPAT - ©Questel

Title

(KR101288017)

Climbing boots,s bottom-pad use for absorbed shock of sloping road

Images**Publication data including kind & date**[KR101288017](#)

B1 2013-07-19

KR101288017

[KR20130010197](#)

A 2013-01-28

KR20130010197

**Abstract**

(KR20130010197)

PURPOSE: A detachable climbing boots heel for absorbing shock is provided to secure stability while a user is climbing a slope, not to give burden to the muscle of calves or the ligaments, to absorb the impact by body weight, to reduce a frictional force and to increase an elastic force. **CONSTITUTION:** The detachable climbing boots heel for absorbing shock is composed of a heel cover(10) which covers the back of a hiking boots(1) with an upper part left open, a tie down which fixes the heel cover to the hiking shoes, a plate spring(30) which combines with the lower part of the heel cover, which is tilted the lower face to contact a slope, which has open front to allow a generation of a trigger force and which is formed the

rear face to be a couple of semi-circle and a coil spring(40) which supports the plate spring being connected to the front of the plate spring and which is formed in a C-shaped rod to generated the trigger force.

Inventors

JOUNG, HA KIL

Family 41/432 - FAMPAT - ©Questel

Title

(FR-911124)

Improvements to removable heels for shoes

Publication data including kind & date

[FR911124](#)

A 1946-06-28 FR-911124

**Inventors**

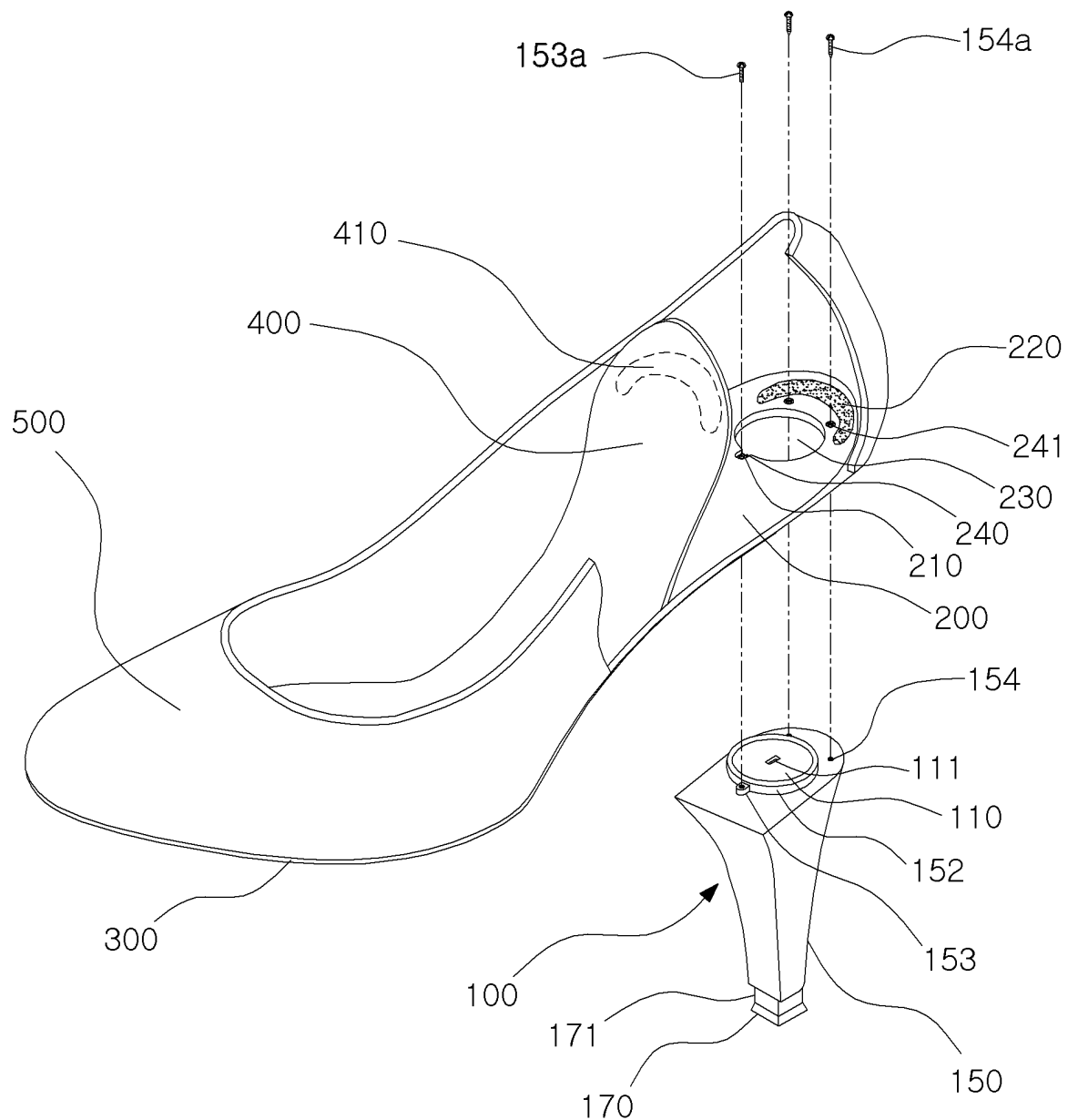
TOUVET MICHEL-NORBERT

Family 42/432 - FAMPAT - ©Questel

Title

(KR101009578)

High heel with easily changeable shock absorber

Images

Publication data including kind & date[KR101009578](#)

B1 2011-01-20 KR101009578

**Abstract**

(KR101009578)

PURPOSE: High-heeled shoes are provided, which can securely fix a heel and absorb applied load in multi-stages.

CONSTITUTION: High-heeled shoes comprise: a heel body(150) equipped with a hollow accommodation space which is formed by penetrating to the top and bottom; a buffer member(130) of elastic material which is accepted to the upper side space of the accommodation space; a piston rod(140) which is accepted in the lower space of the accommodation space in order to be movable to the top and bottom and fixes a supporting plate in the bottom projected from the lower outside of the accommodation space; and a cover(110) which is fixed to be projected in the upper direction.

Inventors

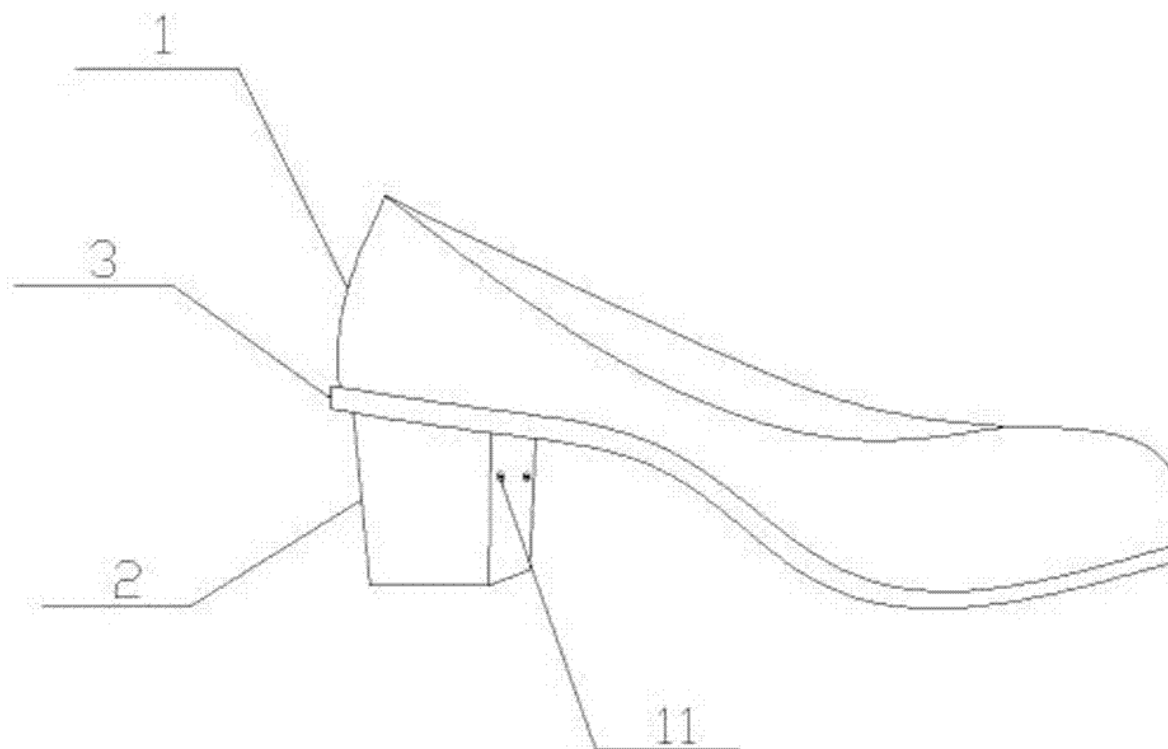
GO, JONG-TAEK

Family 43/432 - FAMPAT - ©Questel

Title

(CN107224032)

Shoe with replaceable shoe heel

Images**Publication data including kind & date**[CN107224032](#)

A 2017-10-03 CN107224032

**Abstract**

(CN107224032)

The invention discloses a shoe with a replaceable shoe heel. The shoe comprises a shoe body and the replaceable shoe heel. A shoe sole is connected with the bottom of the shoe body in a sewed manner, and a support frame is clamped at a heel location of the shoe sole by means of hot melting, is nested inside the replaceable shoe heel and is fixed to the replaceable shoe heel by the aid of bolts. The shoe has the advantages that the shoe is simple in structure, the shoe heel can be conveniently replaced without influence on the integral appearance of the shoe, and obvious compressive feeling of the heel of a wearer can be prevented after the wearer wears the shoe on the foot.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

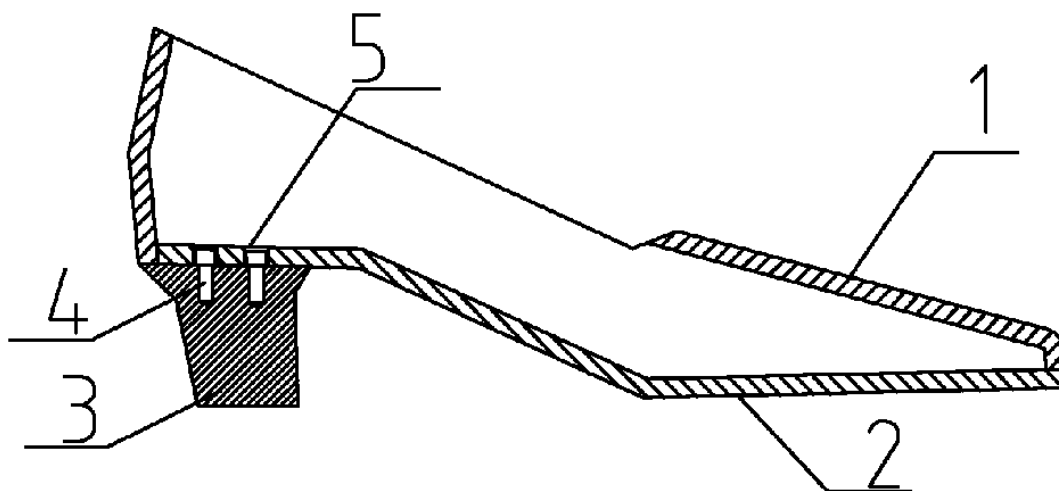
HEFEI ZHUMENGYI CLOTHING TRADE

Family 44/432 - FAMPAT - ©Questel

Title

(WO200867775)

Shoe with removable high heel

Images**Publication data including kind & date**[WO2008/067775](#)

A1

2008-06-12

WO200867775

[CN200983884](#)

Y

2007-12-05

CN200983884U

**Abstract**

(WO2008/067775)

A shoe with removable high heel includes a shoe upper (1), a sole (2) attached to the lower edge of the shoe upper (1), and a heel (3) connected with the rear portion of the sole (2). The heel (3) is mounted removably on the rear portion of the sole (12).

Inventors

WANG XINGMIN

Family 45/432 - FAMPAT - ©Questel

Title

(FR-874823)

Heel pad or removable protective plate for heels

Publication data including kind & date[FR874823](#)

A

1942-08-27

FR-874823

**Latest standardized assignees - inventors removed**

PATENTEXPLOATERING & JOHANSSON

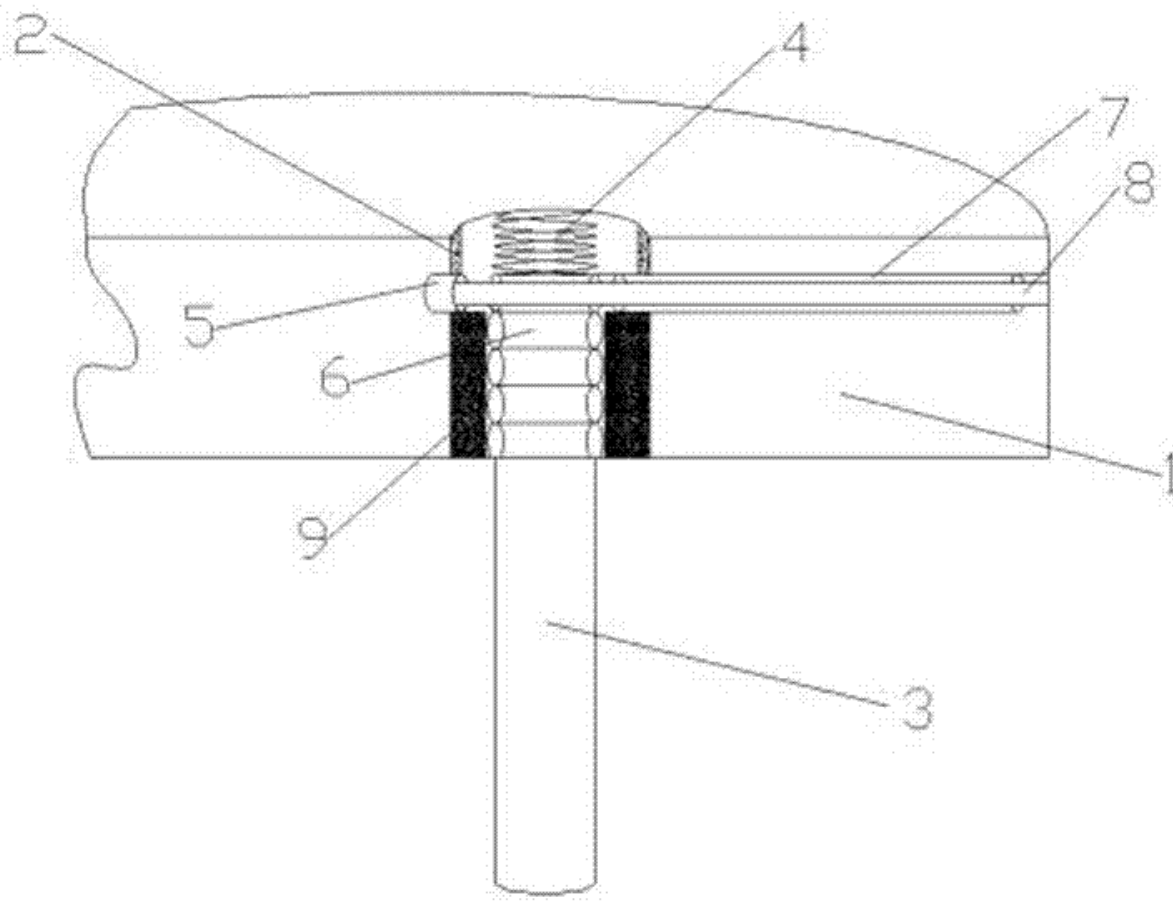
Family 46/432 - FAMPAT - ©Questel

Title

(CN107259708)

Shoes with telescopic heels

Images

**Publication data including kind & date**

CN107259708

A

2017-10-20

CN107259708

**Abstract**

(CN107259708)

The invention discloses a pair of shoes with telescopic heels. Each shoe comprises a shoe seat, wherein the shoe seat is an oval body; a round through hole is formed in the center of the shoe seat; a heel is vertically arranged inside the through hole; a spring is also arranged inside the through hole; rivet holes are formed in two sides of the inside of the through hole; one end, positioned inside the through hole, of the heel is fixed and is provided with a plurality of positioning holes in parallel; a transverse hole is formed in the side wall of the shoe seat, and is connected with the through hole; a pin rod is pinned and connected inside the transverse hole and passes through the transverse hole to be riveted with the rivet holes; a sandwich layer damping layer is arranged on the inner wall of the through hole; one end, far away from the heel, of the through hole is fixedly provided with a hole cover; the hole cover is aligned with the top of the shoe seat; the spring is made of high-grade tough permanent high-strength materials; and the pin rod is in a low-carbon steel cylindrical strip shape. The shoes bring convenient comfortable and good wearing and use experience for a user to the maximum degree; the defects of instability and easy wagging of the telescopic heels are fundamentally overcome; and the safety and the high adaptability of the shoes with the telescopic heels in the wearing process can be further improved.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

HEFEI ZHUMENGYI CLOTHING TRADE

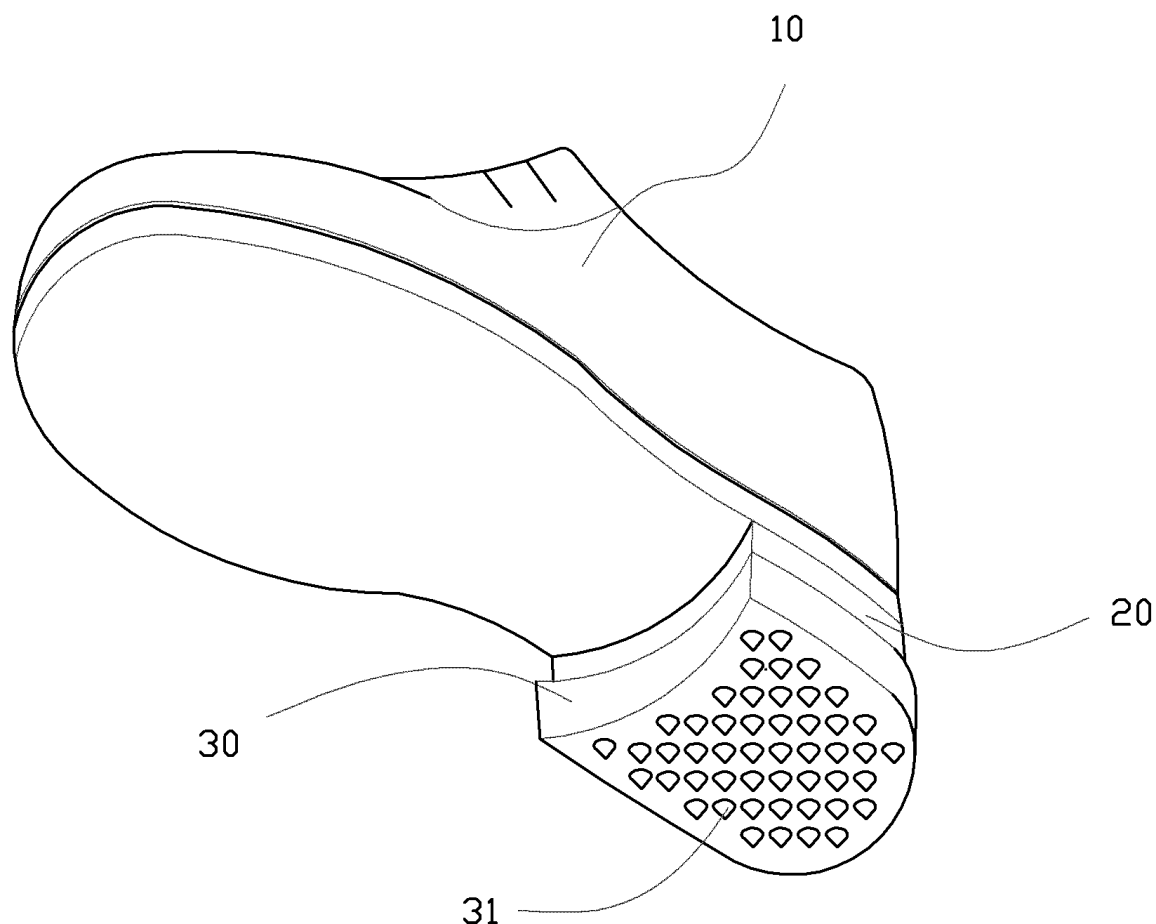
Family 47/432 - FAMPAT - ©Questel

Title

(KR20110048770)

Sub heel of shoe heel

Images

**Publication data including kind & date**[KR20110048770](#)

A

2011-05-12

KR20110048770

**Abstract**

(KR20110048770)

PURPOSE: A secondary heel of a shoe heel is provided to prevent slipping and to absorb an impact by inserting a heel into a fitting groove of the secondary heel. CONSTITUTION: A secondary heel of a shoe heel is equipped with a secondary heel(30) in which a fitting groove(40) is formed. A heel(20) is inserted into the fitting groove. The heel and secondary heel are attached and fixed by attaching a double sided tape on the floor of the fitting groove when the heel is inserted into the fitting groove. In the floor of the secondary heel, an elastic projection contacting the surface is projected.

Inventors

KIM, TAE-SOO

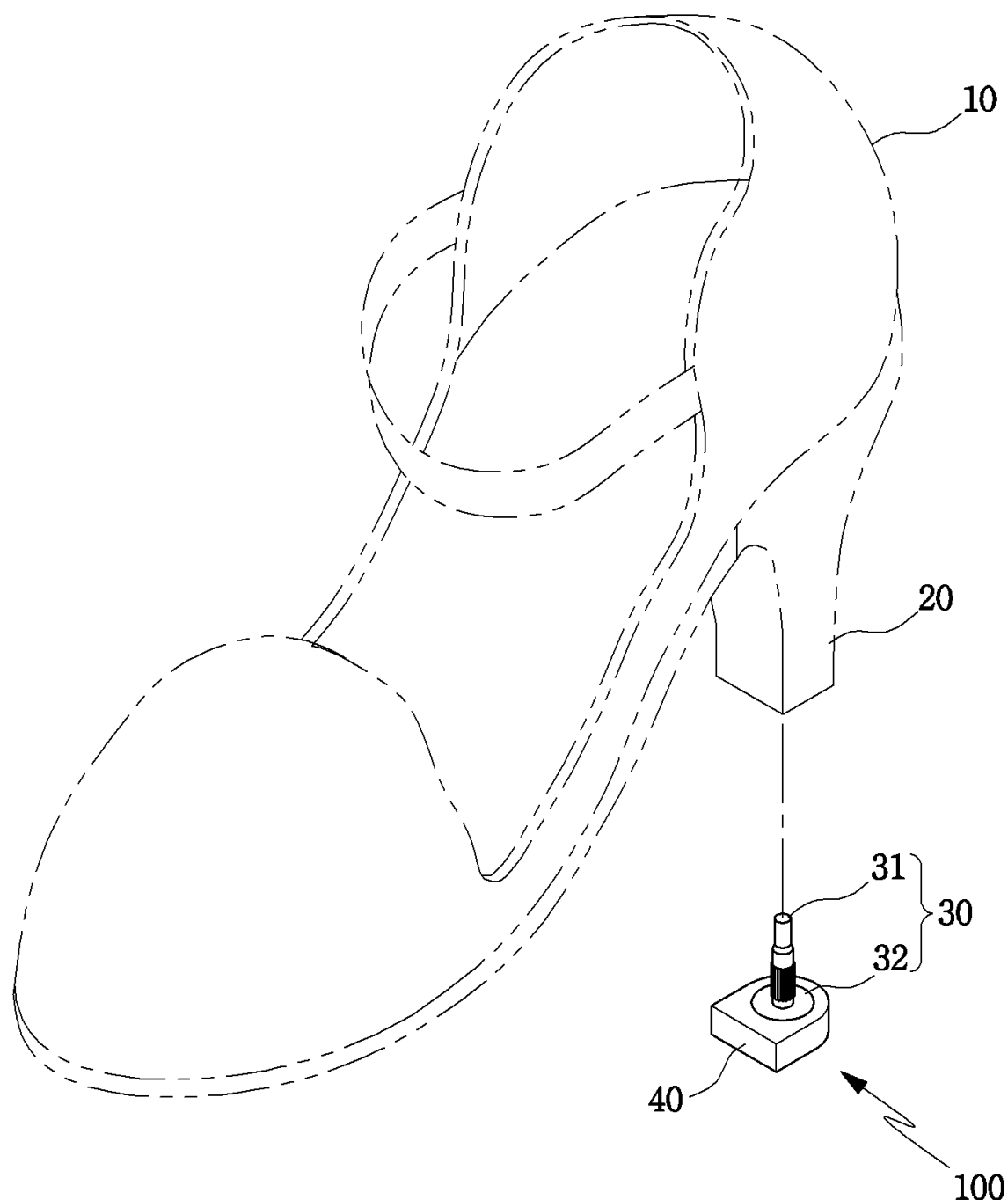
Family 48/432 - FAMPAT - ©Questel

Title

(KR20100011831U)

Assistance shoes heel

Images

**Publication data including kind & date**[KR20100011831](#)

U

2010-12-07

KR20100011831U

**Abstract**

(KR20100011831)

This invention relates to a wear rate by friction with the ground during walking while minimizing stable to prevent sliding during walking at the same time providing a cushioning feeling can be reduced fatigue relates to a shoe in the heel of the auxiliary, and more particularly to the main in a heel strike fits the tip of the tool are integrated in the insert injection bonded by using one or more support while being combined with integrally molded protrusions projecting hard baking of the hard rubber material made of the hard, rigid heeled hard bendy made integral support projections to cover made of soft rubber or soft baked emitted insert is configured to; heeled shoes to minimize wear rate to avoid slipping and at the same time providing a cushioning feeling of fatigue can be reduced to increase the effect thereof.

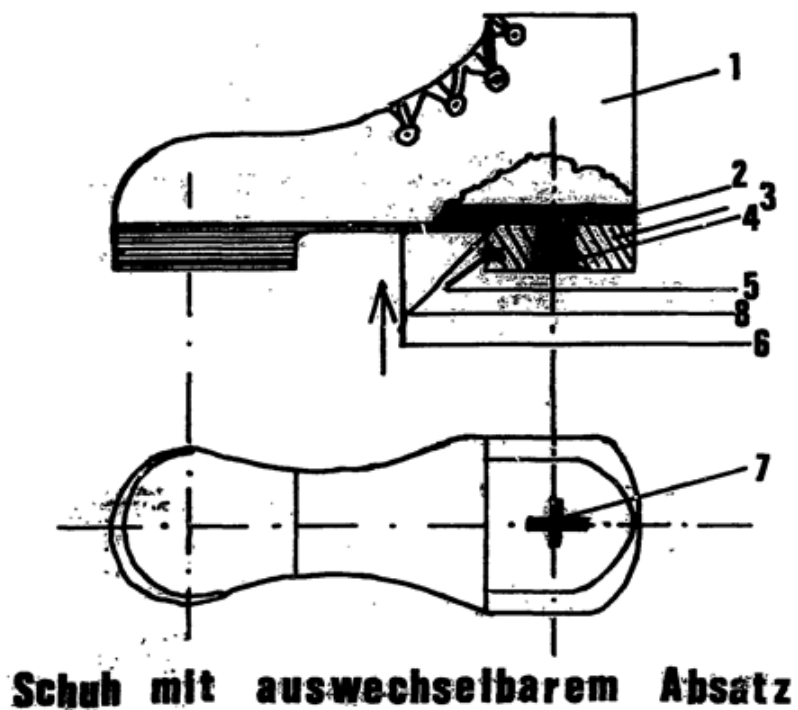
Inventors

JANG, KUN CHAI

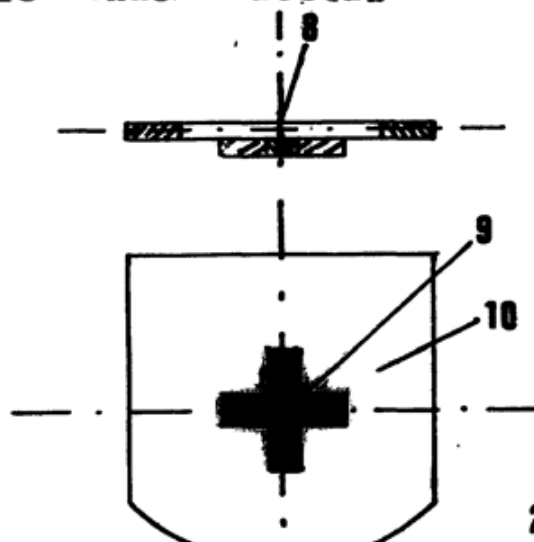
Jung Woon Hoon

Family 49/432 - FAMPAT - ©Questel

Images



Skizze ohne Masstab



Publication data including kind & date

[DE7625868](#)

U1 1977-01-27 DE7625868



Latest standardized assignees - inventors removed

BULLINGER LUDWIG

ROETZEL WOLFGANG

6742 HERXHEIM

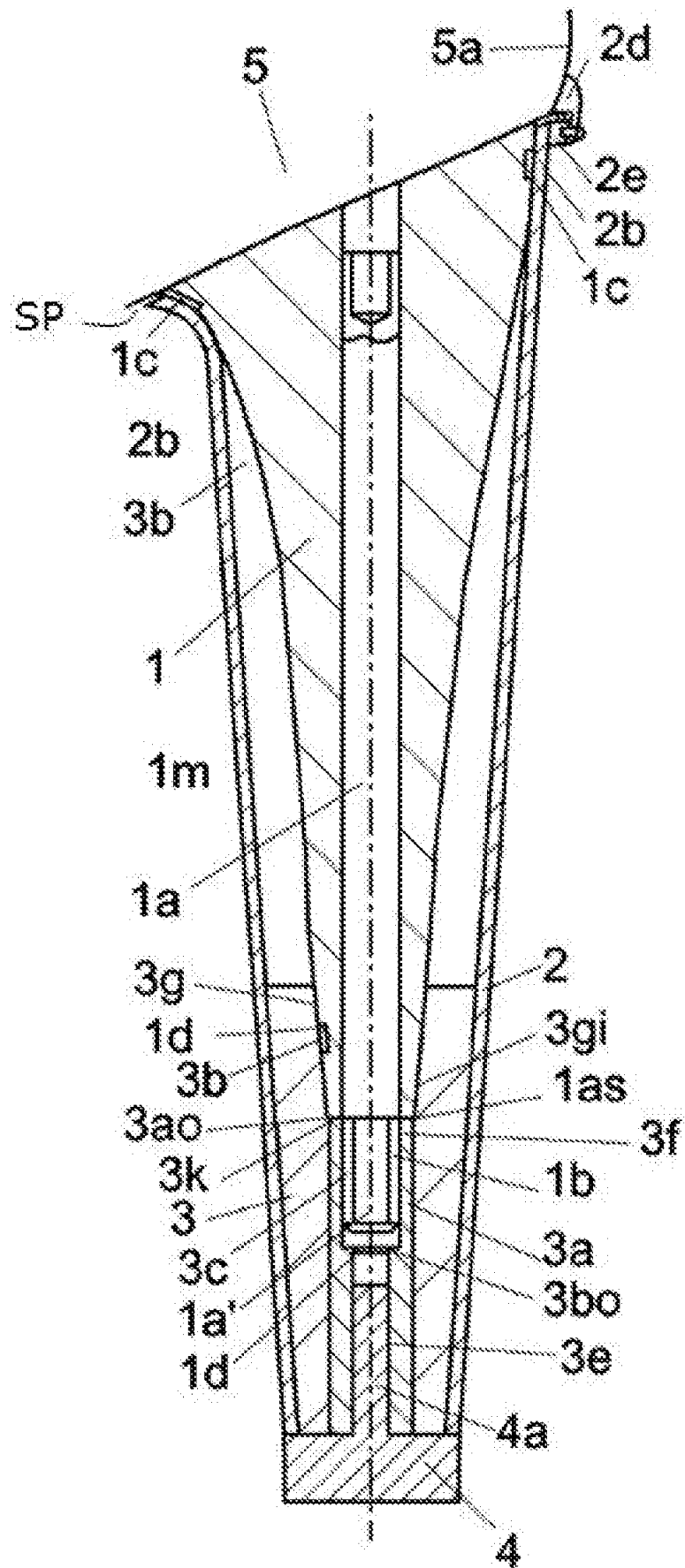
Family 50/432 - FAMPAT - ©Questel

Title

(WO2016102173)

Interchangeable shoe heel

Images



Publication data including kind & date

US20170347751	A1	2017-12-07	US20170347751
CN107438377	A	2017-12-05	CN107438377
WO2016/102173	A1	2016-06-30	WO2016102173
DE102014119561	A1	2016-06-23	DE102014119561

**Abstract**

(WO2016/102173)

The invention relates to an interchangeable shoe heel (2, 3, 4) for a shoe which has a shoe body (5, 5a), on which a heel part (1) is molded or attached, and the heel part (1) has a metal rod (1a), which extends over at least half, in particular over two thirds, of the length of the shoe heel (1, 2, 3, 4) and is connected to the heel part (1), in particular cast or stuck into the heel part (1), wherein the rod (1a) protrudes with its free end (1a') from the heel part (1), characterized in that the interchangeable shoe heel (2, 3, 4) has a first part (3) having an upper recess (3g) into which the rod (1a) engages with its free end (1a') and/or the heel part (1), and in that the recess (3g) has a support surface, in particular in the form of a collar (3k) or base wall (3bo), on its inner wall (3gi), on which the rod (1a) or a support area (1as) of the heel part (1) is supported in the axial direction of the rod (1a), and in that the heel tip (4) is arranged on the lower end of the first part (3), and in that the first part (3) is covered by an encasing wall (2) and connected thereto, wherein the wall (2) extends from the heel tip (4) up to the shoe body (5, 5a).

Inventors

LEIBER KATRIN

Latest standardized assignees - inventors removed

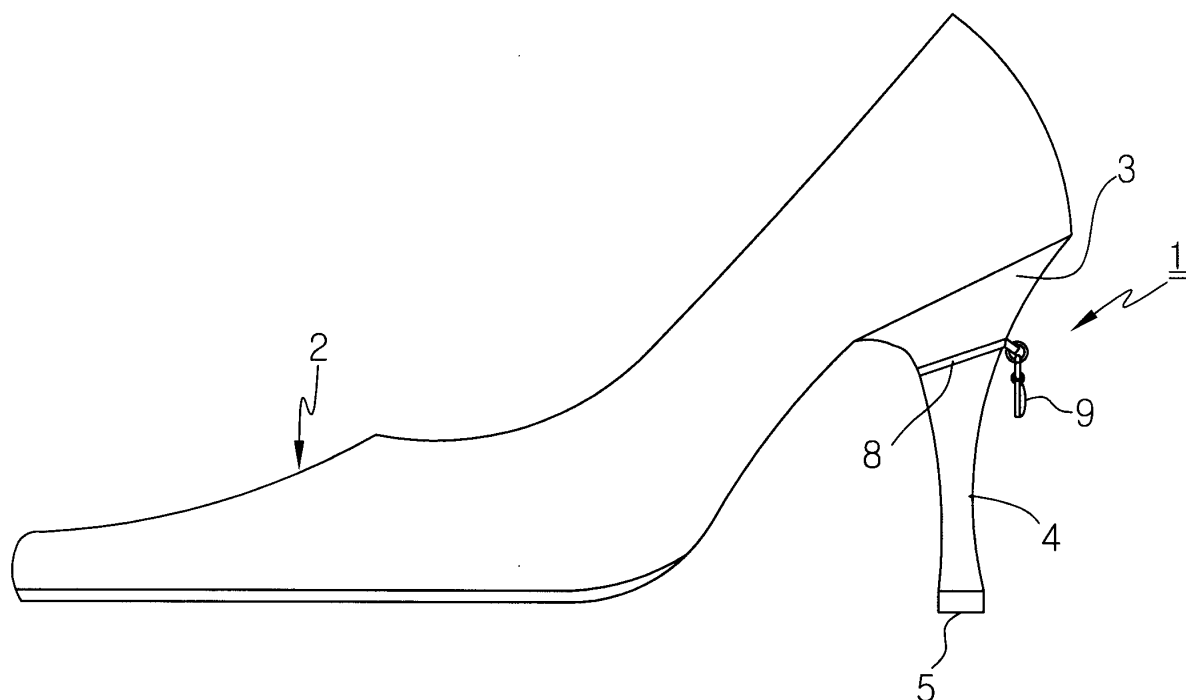
CATLIN LIBER

Family 51/432 - FAMPAT - ©Questel

Title

(KR200390123U)

Heel for women's shoes

Images**Publication data including kind & date**

KR200390123	Y1	2005-07-19	KR200390123U
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**Abstract**

(KR200390123)

This invention relates to a signal in the back of a woman's shoe mainly women which are fixed to a lower end in a nice leg line capable of making use of the artificial stone which is mounted on the curved baked onto the woman's shoe, which is easy to manufacture and maintain, differentiate and tint appearance, doubling the competitiveness of the product to be baked in the shoe of the present invention intends to provide.

That is, the present invention relates to be fixed to the lower rear end of a woman's shoe (2) in the heel (1) shoes, the shoes (2) (3a) bonding a coupling hole formed at the lower body portion (3) and, at the lower tip (5) is fixed to the body portion (3) and a connecting hole (3a) (4a) bonded to a coupling projection formed at an upper side of the fixing portion (4) and a tip, the engaging hole (4a) (8a) fitted in the form of a decorative member (9) including at least one of which is fixed to the body portion (3) and a tip portion of the (4) binding between the engagement ring (8) as, easy and lost during use of the decorative member (9) can be easily repaired even an advantage, since the decorative member (9) is swung at the time of walking according to the present invention allows the temple to the observer so as to increase the visibility can be, enhancing aesthetics appearance design quality enhancement of products, to aid in the differentiation by competitive will be doubled.

Inventors

ParkHoGil

Family 52/432 - FAMPAT - ©Questel

Title

(FR1062807)

Fixing device, on shoes, of interchangeable heels of different heights

Publication data including kind & date[FR1062807](#) A 1954-04-27 FR1062807**Inventors**

BENAVIDES ANTONIO

PICCOLI ANSELMO

MENGUEZ CELESTINO ANTONIO

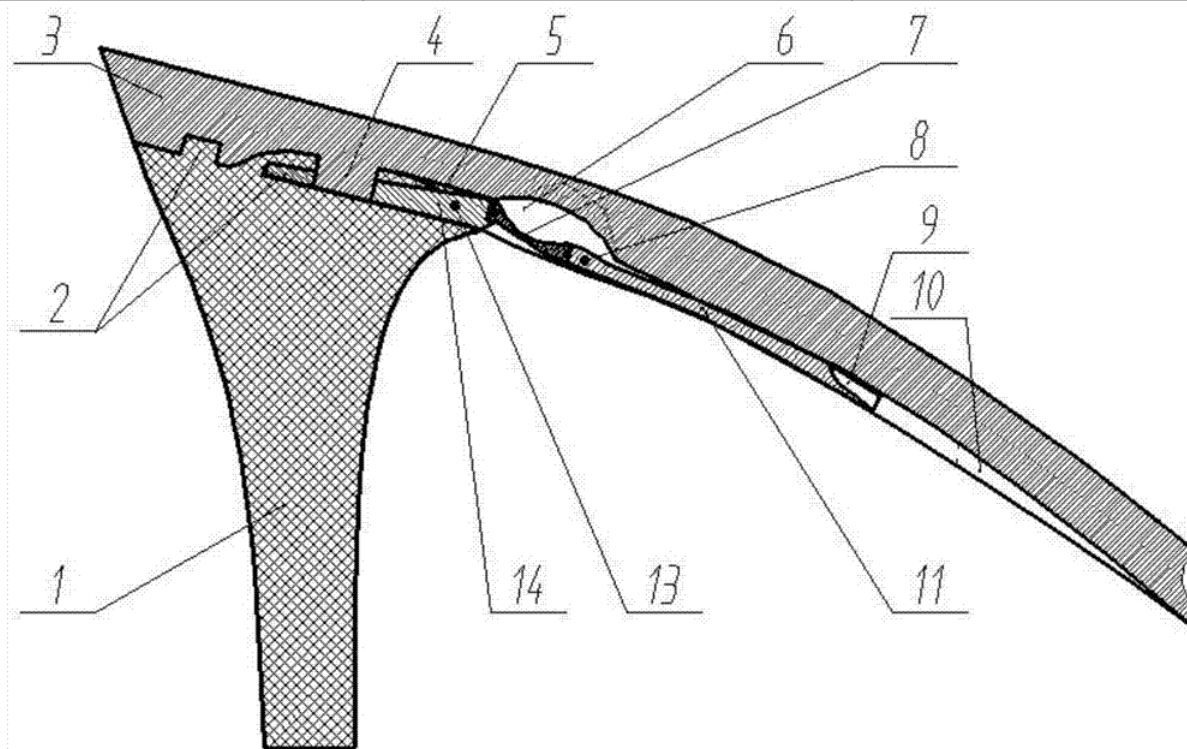
Family 53/432 - FAMPAT - ©Questel

Title

(CN106723655)

Elastic component driving clamping buckle type high-heeled shoe with replaceable shoe heel

Images

**Publication data including kind & date**

CN106723655	B	2018-11-30	CN106723655B
CN106723655	A	2017-05-31	CN106723655

**Abstract**

(CN106723655)

The invention discloses an elastic component driving clamping buckle type high-heeled shoe with a replaceable shoe heel. An elastic component driving clamping buckle heel removal device of the elastic component driving clamping buckle type high-heeled shoe comprises a clamping buckle and a pull rod which are in shaft connection with a shoe sole separately. One end of the clamping buckle is inserted into a groove of the shoe heel, the other end of the clamping buckle is connected with the pull rod through an elastic component, the shoe sole is provided with a limiting fixing block, and the limiting fixing block is clamped to the portion, inserted into the shoe heel, of the clamping buckle. On the basis of the lever principle, the space and size needed by the clamping buckle and the pull rod are small, the space of the shoe sole is saved, the shoe sole and shoe heel space utilization rate is proper, and the thickness and the strength of the shoe sole are enhanced; the whole structural technology is simple and practical; by arranging an elastic component, the phenomenon that the shoe heel is disengaged and vibrates after the clamping buckle moves can be avoided, and the fixing and limiting effects are further achieved.

Inventors

MA LI

Latest standardized assignees - inventors removed

HANGZHOU JIUBAHONGTU TECHNOLOGY

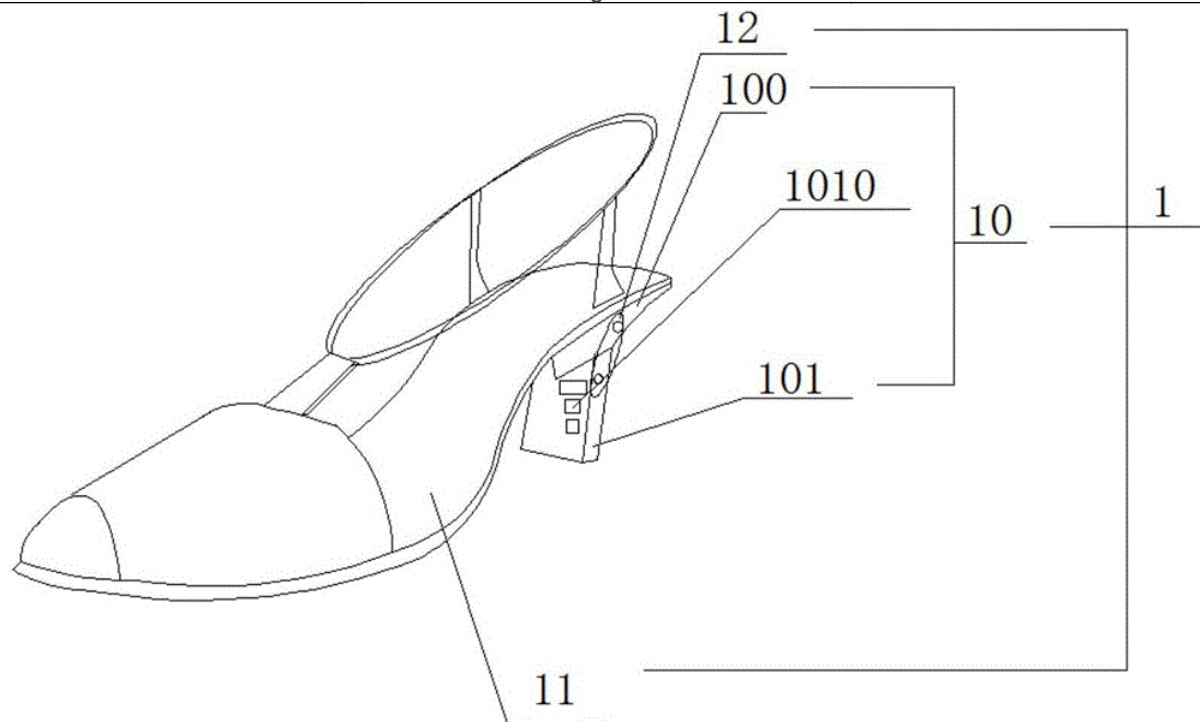
Family 54/432 - FAMPAT - ©Questel

Title

(CN106617492)

Heel and shoe

Images

**Publication data including kind & date**[CN106617492](#)

A 2017-05-10 CN106617492

**Abstract**

(CN106617492)

The invention provides a heel and a shoe and belongs to the characteristic technical field of shoes. The heel comprises a fixed heel and a movable hell. The fixed heel is arranged on the sole. The movable heel is flexibly connected with the sole or the fixed heel. Moreover, the movable heel relatively moves with the sole or the fixed heel, which makes the lower end of the movable heel below the fixed heel contact with ground under a first state. Under a second state, the lower end of the movable heel above the lower end of the fixed heel is capable of ensuring the fixed heel contact with the ground. The invention also provides a shoe which comprises the heel. The installment of relative movement of the fixed heel and the movable heel eases the situation of relatively high height of the heel in the existing high-heeled shoes. The wearing of the shoes for long time brings injuries to the feet. Moreover, the way that carries the flat shoes to change frequently leads to unnecessary troubles, bringing inconvenient technical questions to human being.

Inventors

LIU XING

Latest standardized assignees - inventors removed

GUANGDONG POLYTECHNIC NORMAL UNIVERSITY

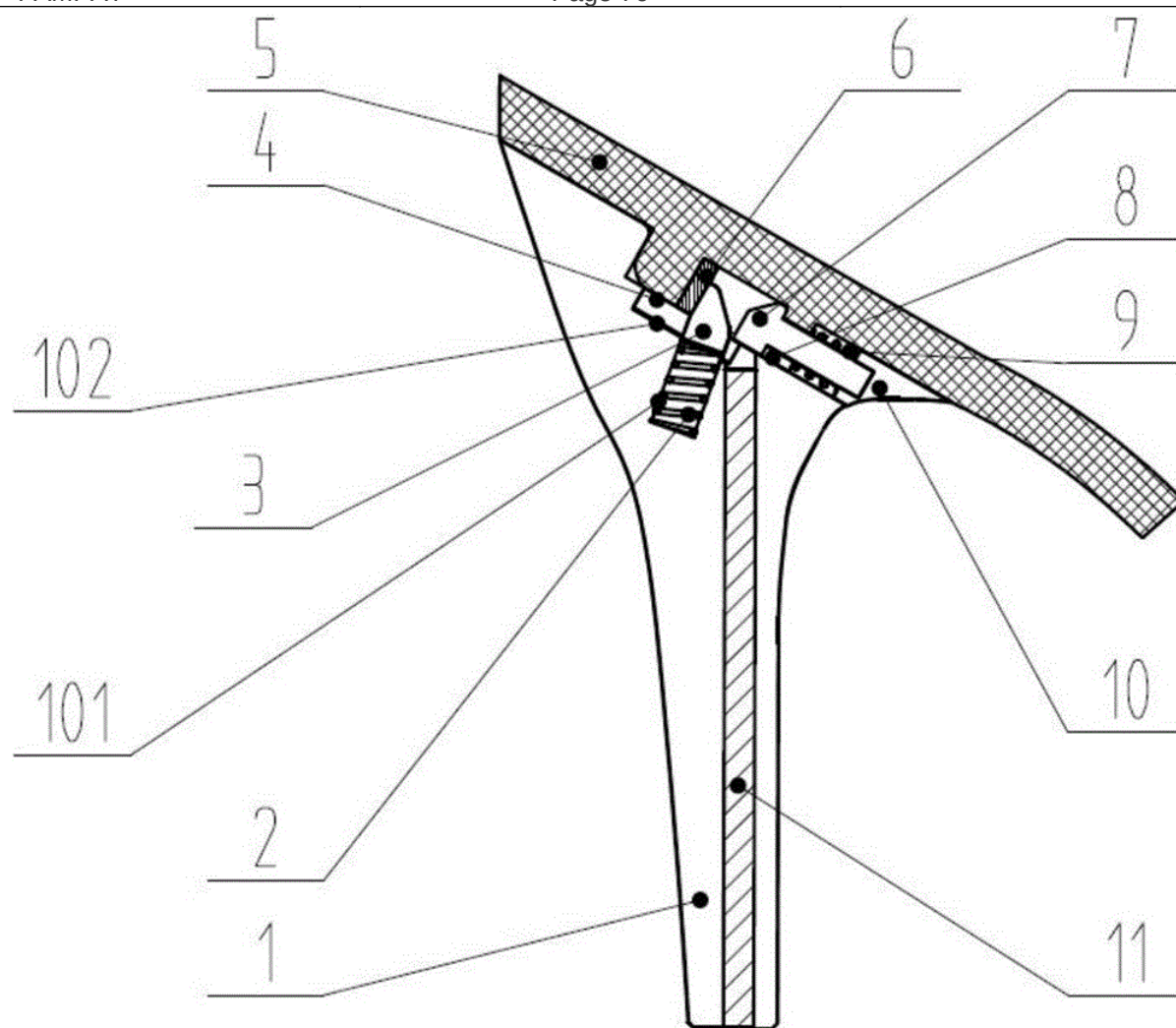
Family 55/432 - FAMPAT - ©Questel

Title

(CN105852322)

Key type heel changing high-heeled shoes

Images

**Publication data including kind & date**

CN205866146	U	2017-01-11	CN205866146U
CN105852322	A	2016-08-17	CN105852322

**Abstract**

(CN105852322)

The invention discloses a pair of key type heel changing high-heeled shoes. Each key type heel changing high-heeled shoe comprises a sole and a heel, wherein a detachable butt joint device is arranged between the sole and the heel; the detachable butt joint device comprises a clamping structure, an elastic ejector rod which is fixedly arranged on the heel and is clamped and buckled on the sole and a pushing rod structure which is fixedly arranged on the sole and is used for compressing the elastic ejector rod and enabling the elastic ejector rod to be separated from the sole; the pushing rod structure comprises a pushing head which is located at one end of the pushing rod structure and corresponds to the elastic ejector rod, a key which is located at the other end of the pushing rod structure and a pushing rod which connects the pushing head with the key. According to the key type heel changing high-heeled shoes disclosed by the invention, trigger switches are arranged on the surfaces of shoe bodies, pressing is convenient, taking off and changing of shoes are simple and convenient, and lines of the appearance of the shoes are more smooth and attractive; through a separating type design of the elastic ejector rods and the pushing rod structures, the problem that water enters the soles in a rainy day due to the fact that hollow cavities of the soles are communicated with guiding sliding grooves is avoided, the soles are not communicated with the outer part, and the water cannot enter inner soles even the shoes are used in the rainy day, so that the wearing comfort is increased, and the service life of the heels is prolonged.

Inventors

LI XIANGQING

MA LI

XU HUIJIE

Latest standardized assignees - inventors removed

HANGZHOU JIUBAHONGTU TECHNOLOGY

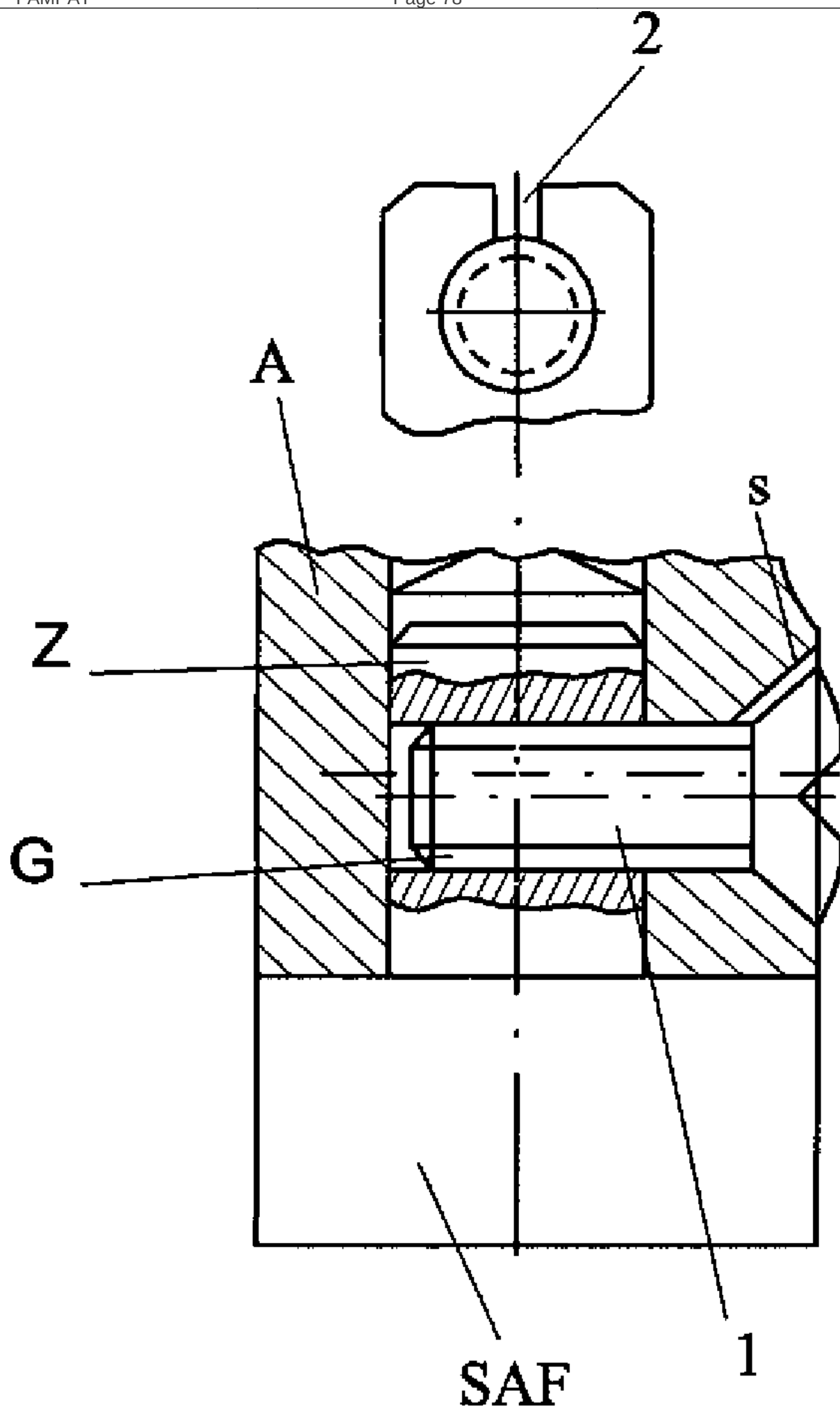
Family 56/432 - FAMPAT - ©Questel

Title

(DE202011101570)

Interchangeable Heel

Images



[DE202011101570](#)

U1 2012-06-06 DE202011101570

Abstract

(DE202011101570)

Interchangeable outsole for a shoe heel, wherein the heel by means of a safety device, in particular screw bowl is secured against rotation on a shoulder and body, characterized in, that the device has at least one holding or fastening element, in particular is provided with a device for preventing unintentional release.

Latest standardized assignees - inventors removed

LEIBER HEINZ

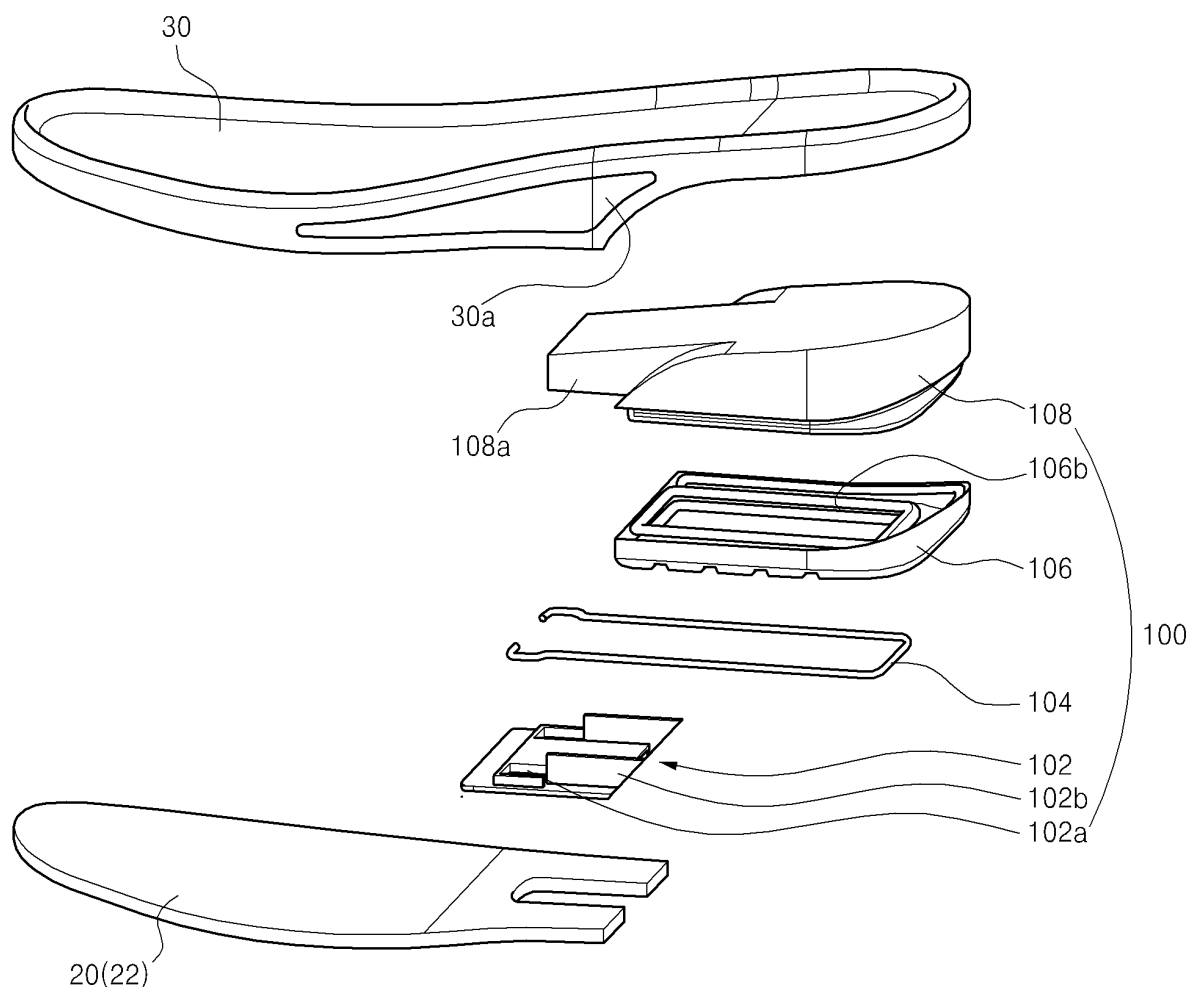
LEIBER KATRIN

Family 57/432 - FAMPAT - ©Questel

Title

(KR101222850)

The shoes having a heel having the other elastic force and exchange

Images10**Publication data including kind & date**[KR101222850](#)

B1 2013-01-16 KR101222850

[KR20120110443](#)

A 2012-10-10 KR20120110443

**Abstract**

(KR20120110443)

PURPOSE: Shoes with a heel are provided to enable a user to do agreeable walking through recombination according to

individual walking characteristics. CONSTITUTION: Shoes with a heel comprise uppers of leather covering the top of a foot, and a sole(10) which contacts the ground. The sole comprises a front outsole(22) forming the front bottom, a midsole(30) which absorbs shocks and has an empty space, and an adjusting member(100) which is combined with the front outsole and the bottom of the rear of the midsole. The adjusting member is assembled and disassembled according to an individual.

Inventors

OH, SUNG - KON

LEE, HYUN-HO

WOO, YOUNG HWA

Latest standardized assignees - inventors removed

NANUX

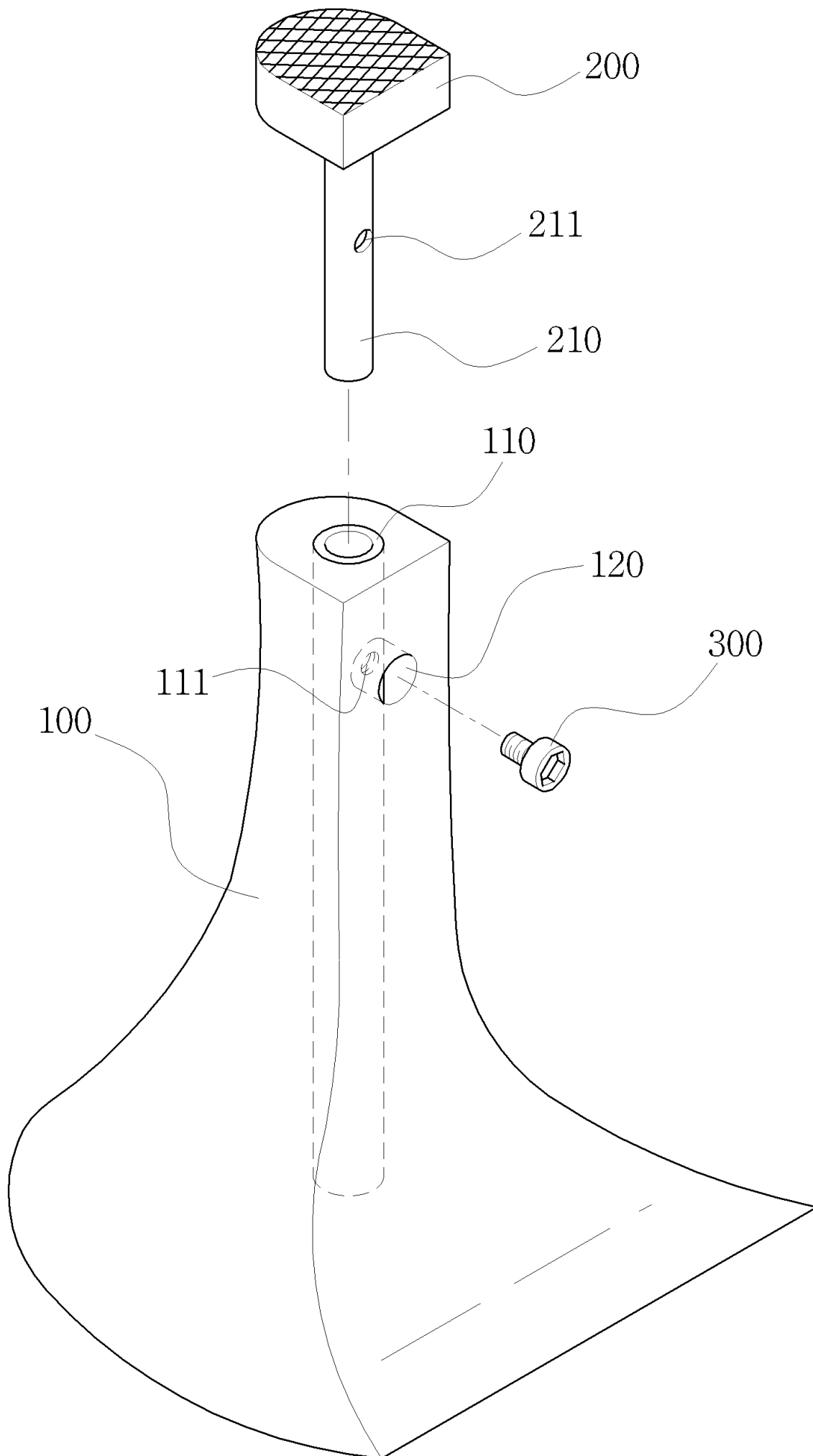
Family 58/432 - FAMPAT - ©Questel

Title

(KR200452015U)

High heel being easy to change hoof

Images



Publication data including kind & date

KR200452015

Y1 2011-01-25

KR200452015U

**Abstract**

(KR200452015)

This invention relates to women's undergarments are provided in the lower end portion of curved bending does not rotate securing is convenient and, even when the bending can be replaced easily can be withdrawn from the replaceable so as to accommodate at the heel replacement is easily directed to the shoes. Such a design is made of the same diameter as a whole, one side of the middle part of the locking groove is formed on the bend-tip tipping and integrally fixed with the; tipping's rather than the outer diameter and having a large inner diameter, so that the fixing groove tipping point when sandwiched between the fixing groove through bending from the upper end portion of a length equal to that of the screw hole formed in a curved position integrally with tubular body that is fixed to the; screw hole of the tubular support comprises a fixing screw screwed in and; screw hole and bent at a position through the side wall of the fixing screw thread formed so as to be accommodated without interference from the it.

Inventors

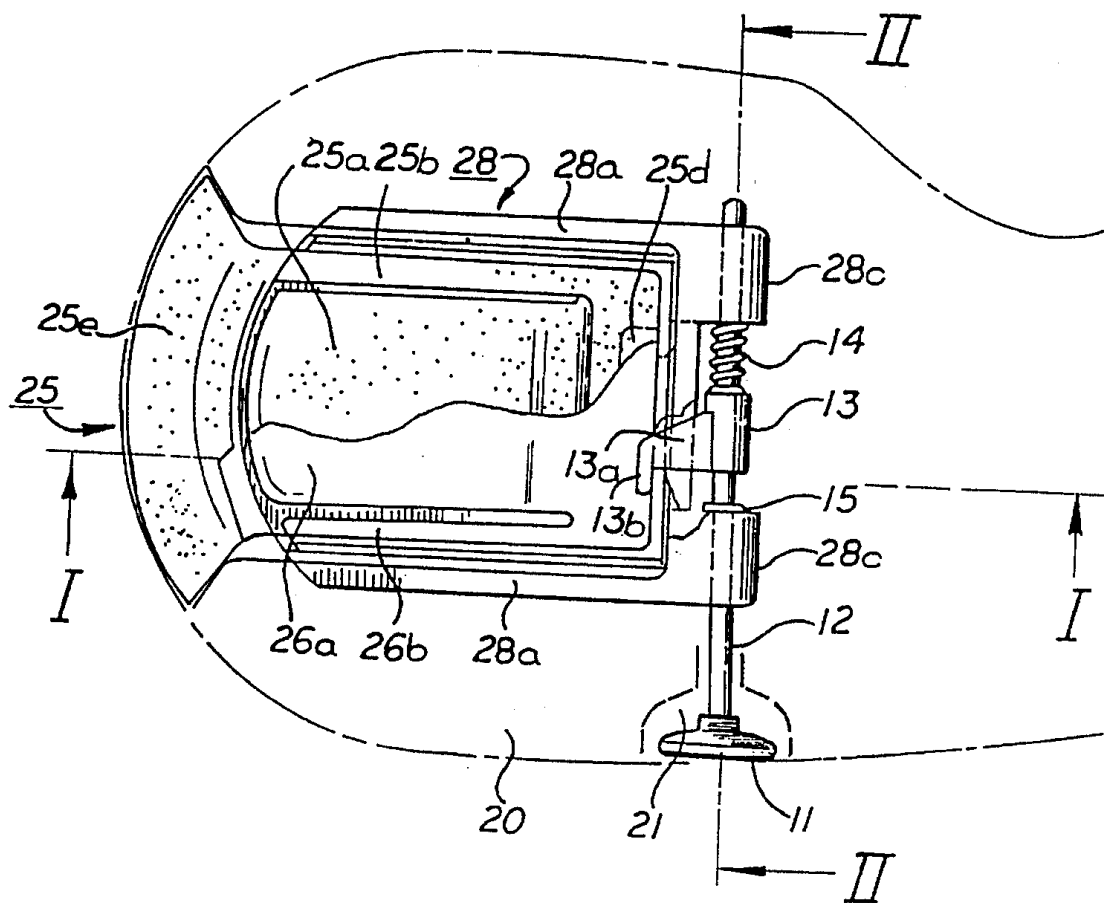
Byun Hak Ju

Family 59/432 - FAMPAT - ©Questel

Title

(US5596819)

Replaceable shoe heel spring and stabilizer

Images**Publication data including kind & date**

US5596819

A 1997-01-28

US5596819

**Abstract**

(US5596819)

A replaceable shoe heel spring assembly allows the wearer of a shoe to selectively change the energy absorption and

return characteristics of the heel portion of the shoe by changing shoe heel spring cartridges. The wearer activates a release mechanism located on an exterior surface of the shoe and a cartridge containing a shoe heel spring is ejected from a location in the mid-sole of the shoe. Another shoe heel spring cartridge having different energy absorption and return characteristics can then be inserted into the mid-sole. The cartridge is securely held in the mid-sole by a locking mechanism connected to the release mechanism. The shoe heel spring is provided with a cover which matches the material of the mid-sole. The cover assists in preventing debris from entering the mid-sole. The selectable range of energy absorption and return characteristics is limited only by the number of cartridges available.

Inventors

GOLDSTON MARK R

BEMIS JON

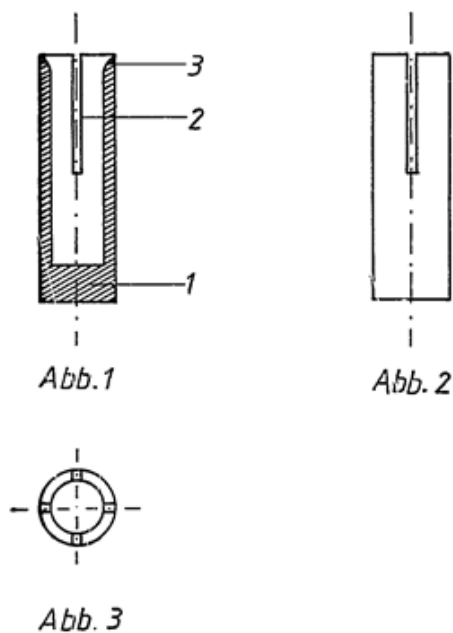
PELSUE DAVID

Latest standardized assignees - inventors removed

CONGRESS FINANCIAL

Family 60/432 - FAMPAT - ©Questel

Images



7730722 09.02.78

Publication data including kind & date

[DE7730722](#)

U1 1978-02-09 DE7730722



Latest standardized assignees - inventors removed

KROME ERICH 4690 HERNE

Family 61/432 - FAMPAT - ©Questel

Title

(FR1328796)

Improvement to the heels of the shoes from ladies metal

Publication data including kind & date



[FR1328796](#)

A 1963-05-31 FR1328796

Inventors

FALCHETTO ROBERT CHARLES

Family 62/432 - FAMPAT - ©Questel

Title

(FR-880289)

Interchangeable shoe for walking of shoe heels

Publication data including kind & date[FR880289](#)

A 1943-03-22 FR-880289

**Inventors**

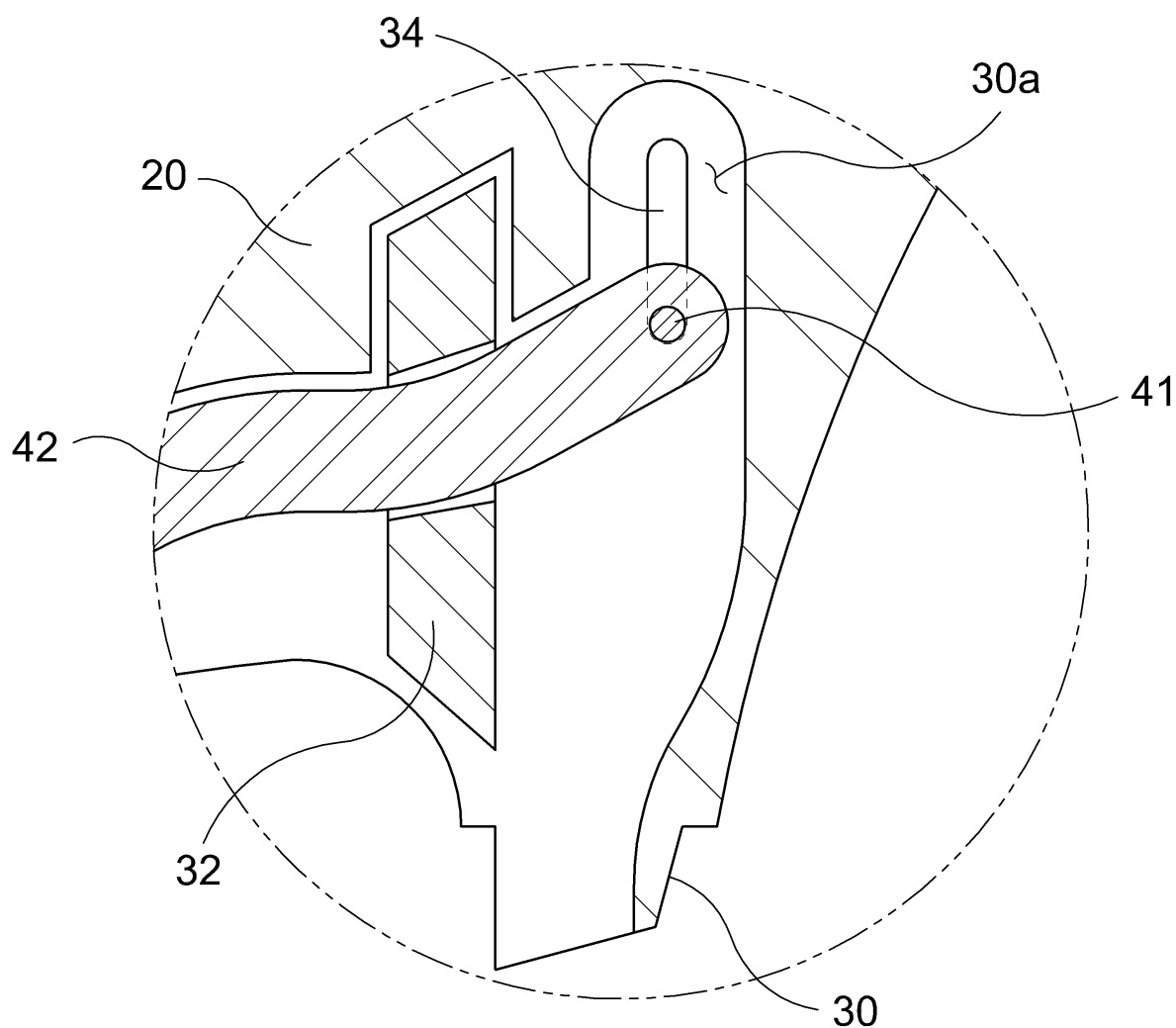
HASSEL FRANZ

Family 63/432 - FAMPAT - ©Questel

Title

(KR101868089)

Withdrawal type shoes capable of adjusting heel height

Images**Publication data including kind & date**[KR101868089](#)

B1 2018-06-18 KR101868089

**Abstract**

(KR101868089)

The present invention relates to withdrawal type shoes capable of adjusting a heel height, which can speedily and easily

change and adjust the heel height to enhance convenience in using a product. To realize this, the present invention comprises: a sole (20) configured to be integrated with a bottom surface of a shoes body (10); a heel (30) provided on a rear end side of the sole (20) to have a regular height; a variable heel (40) connected to a hinge (41) to be able to rotate at an upper end side of the heel (30); a heel storage space (21) formed in the sole (20) to prevent external exposure of the variable heel (40); and a push button (31) formed at one side of the heel (30) in order to open and close the variable heel (40).

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Inventors

CHOE, HAN NA

Latest standardized assignees - inventors removed

CHOE HAN

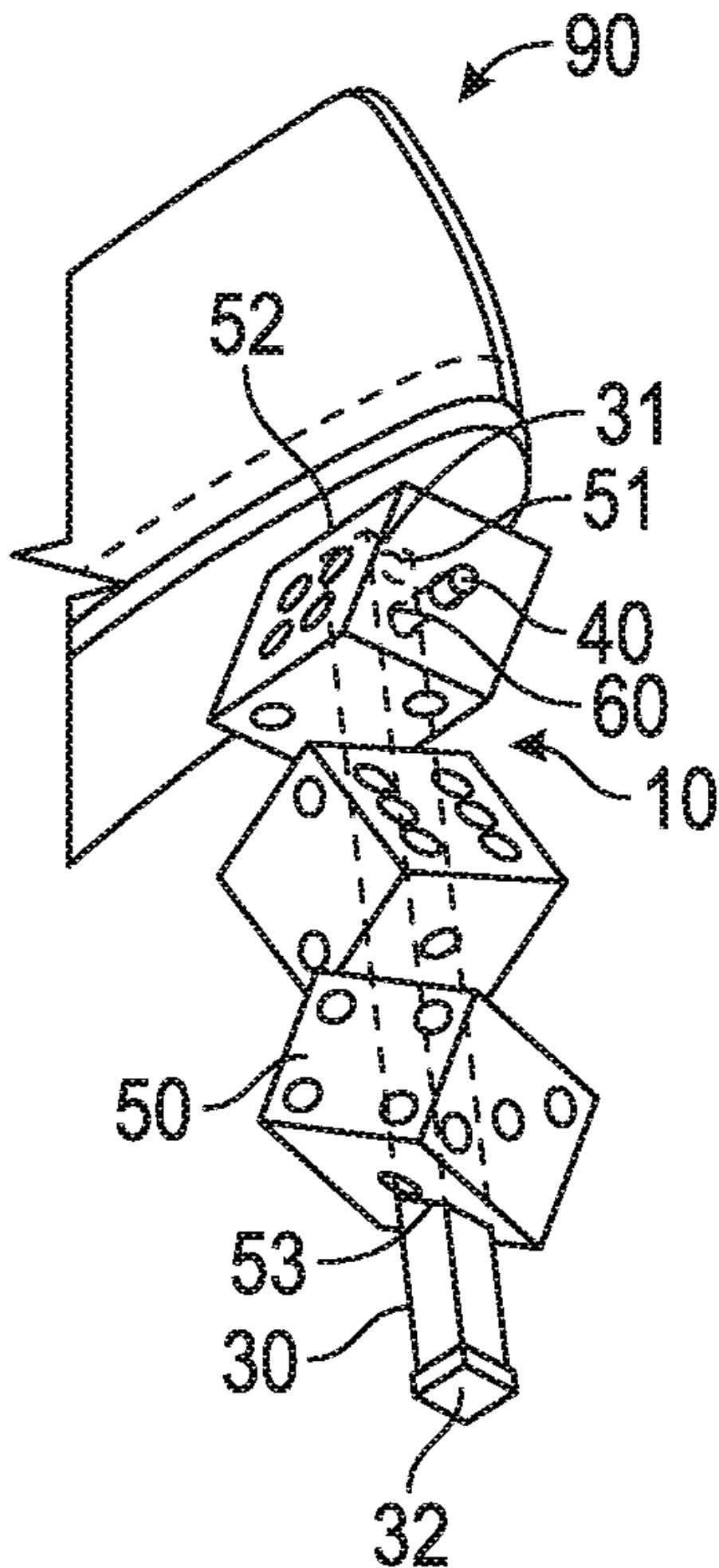
Family 64/432 - FAMPAT - ©Questel

Title

(US20160235163)

Shoe heel cover and kit

Images



Publication data including kind & date[US20160235163](#)

A1 2016-08-18

US20160235163

**Abstract**

(US20160235163)

A shoe heel and heel cover system including a shoe post and a heel cover. The shoe post includes a polygonal main body, a ball, and a spring. The polygonal main body has a top and a bottom. The ball is located on the polygonal main body. The spring is positioned within the polygonal main body and behind the ball. The heel cover has an opening configured to matingly engage the ball and a polygonal void is formed through the heel cover. The heel cover slidably engages the shoe post.

Inventors

ALANDER MELINDA

Latest standardized assignees - inventors removed

SHOENIQUE DESIGNS

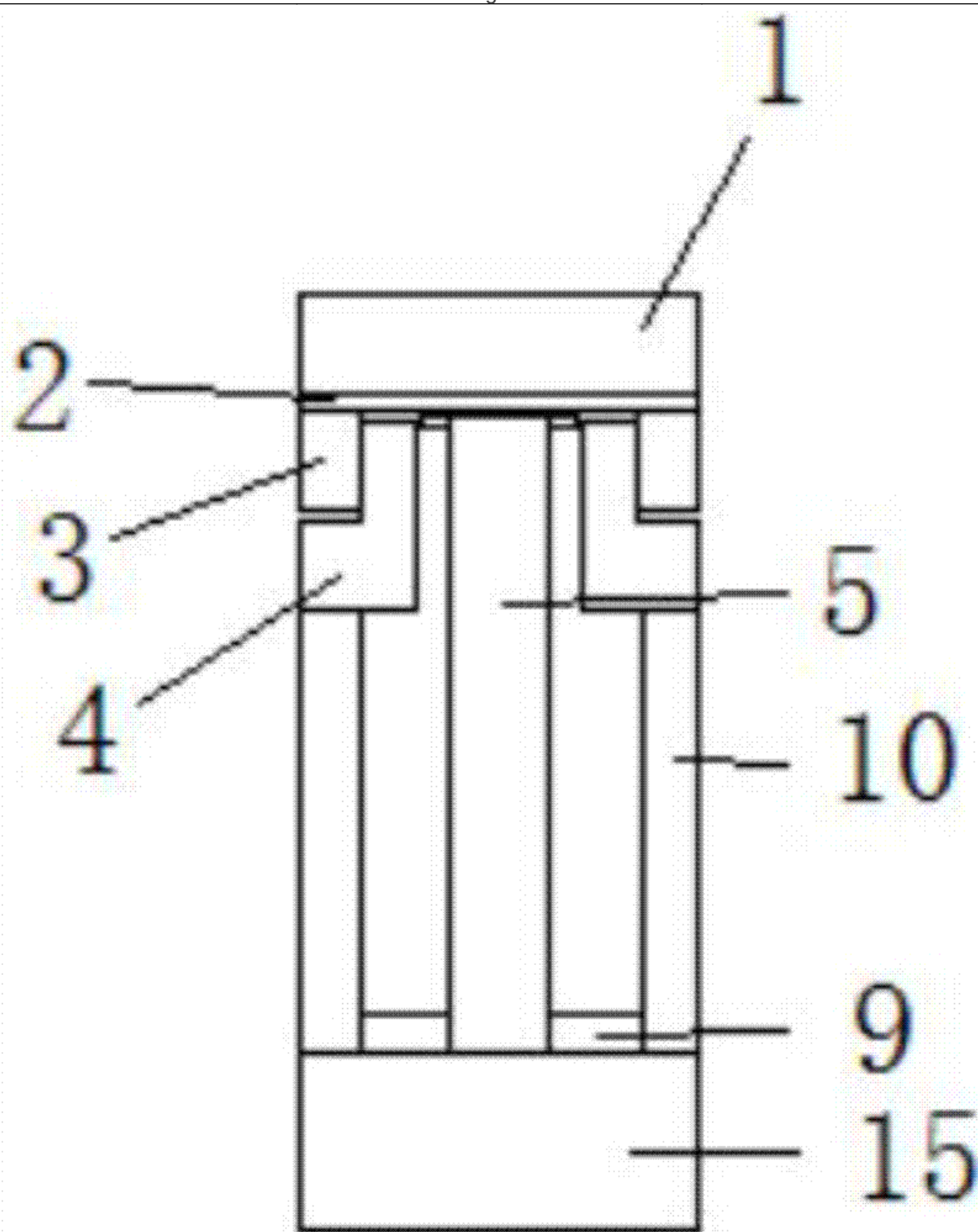
Family 65/432 - FAMPAT - ©Questel

Title

(CN105661752)

Heel with adjustable height

Images



Publication data including kind & date

CN105661752	B	2017-11-07	CN105661752B
CN105661752	A	2016-06-15	CN105661752



Abstract

(CN105661752)

The invention discloses a heel with adjustable height. The heel comprise a rubber pad, a steel plate is installed on the bottom of the rubber pad, the bottom of the steel plate is connected with a first bearing, the inner ring of the first bearing is connected with an adjuster, a threaded rod is arranged in the adjuster, rollers are uniformly arranged around the threaded rod, a thread is formed in the surface of each roller, fixed rings are arranged at the top and the bottom of each roller, the outer ring of each fixed ring is connected with the inner wall of the adjuster, a protruded block is formed on the upper outer wall of the threaded rod, a second bearing is installed at the lower part of the outer wall of the threaded rod, the bottom periphery of the adjuster is connected with an expansion plate, an expansion frame is installed in the expansion plate, connecting blocks are uniformly left in the expansion plate and are connected with the expansion frame, a push-pull rod is

arranged in the expansion frame, one end of the push-pull rod is connected with a supporting rod, the lower part of the inner wall of the expansion plate is connected with the outer wall of the second bearing, and the bottom of the threaded rod is connected with a plastic plate.

Inventors

JIANG DANYI

Latest standardized assignees - inventors removed

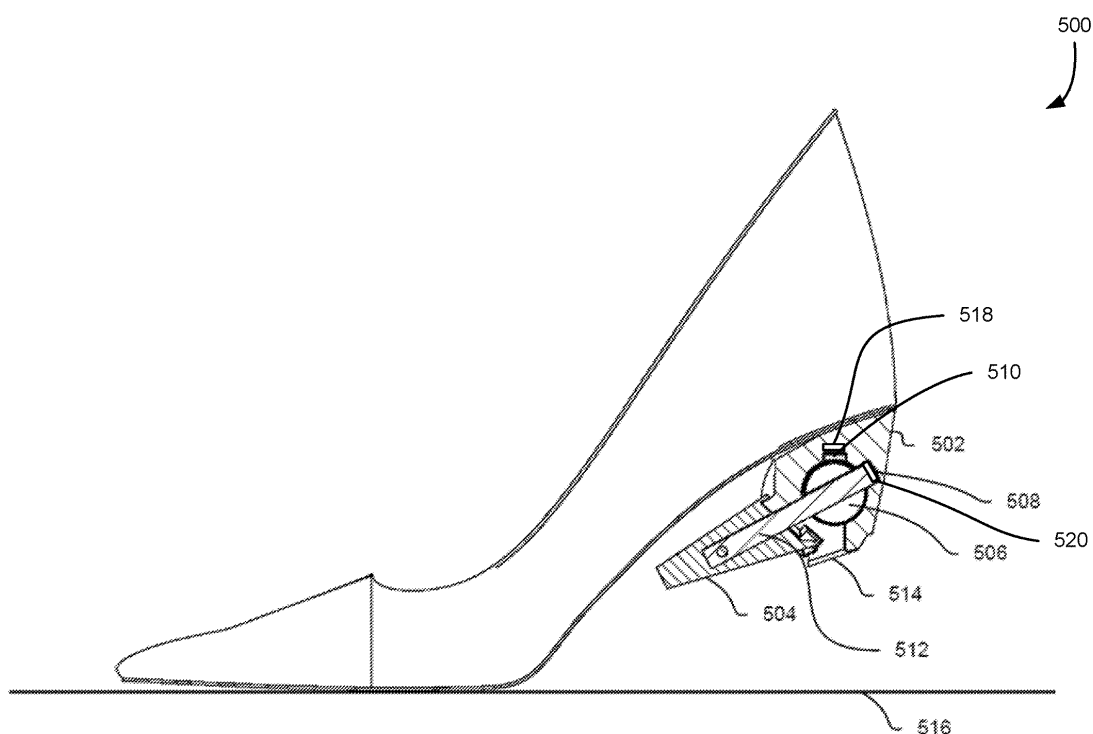
ZHEJIANG KAJIALI SHOES INDUSTRY

Family 66/432 - FAMPAT - ©Questel

Title

(US20190200705)

Retractable high heel for shoes

Images**Publication data including kind & date**

US20190200705	A1	2019-07-04	US20190200705
US10045591	B2	2018-08-14	US10045591
US20150113837	A1	2015-04-30	US20150113837

**Abstract**

(US20190200705)

A retractable heel for a shoe is described herein comprising an upper heel body and a retractable lower heel body. The lower heel body is may be placed in at least two configurations. In a first configuration, with the lower heel body retracted, the upper heel body may contact the ground when the shoe is worn. In a second configuration, with the lower heel body not retracted, the upper heel body may not contact the ground when the shoe is worn, being prevented from doing so by the lower heel body.

Inventors

ISINHUE ALEXANDER M

ORDONEZ-CHU NATHAN ALEXANDER

MACNAMARA ELYSE A

Latest standardized assignees - inventors removed

ALEXANDER ISINHUE

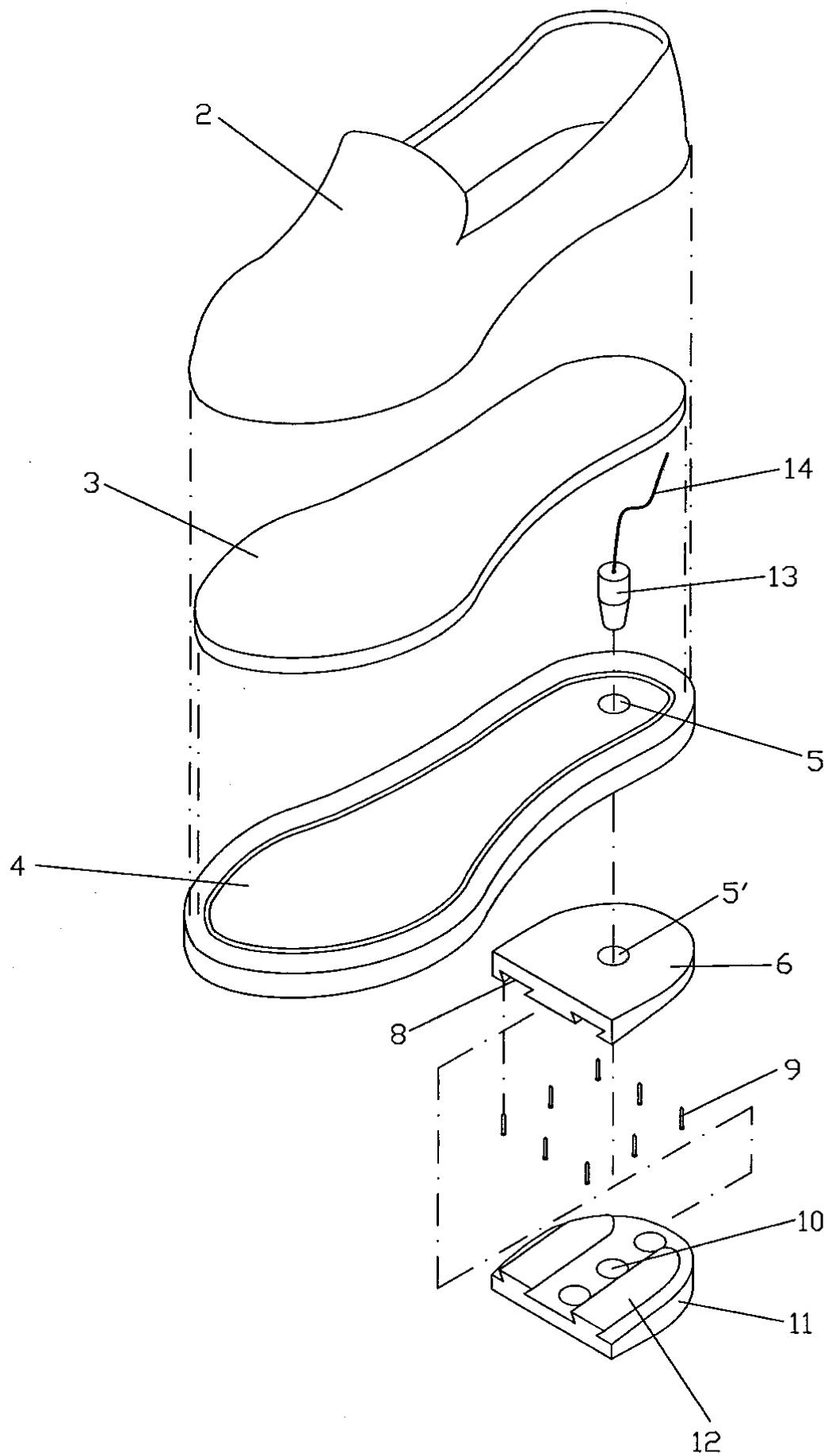
Family 67/432 - FAMPAT - ©Questel

Title

(KR20130001605)

Replaceable heel capable of being easily exchanged

Images



Publication data including kind & date[KR20130001605](#)

A 2013-01-04

KR20130001605

**Abstract**

(KR20130001605)

PURPOSE: A replaceable heel is provided to be conveniently exchanged without using a separate tool.

CONSTITUTION: A replaceable heel comprises an outsole(4) which is combined with leather upper(2) and an insole(3), a heel(6) which is combined with the bottom rear of the outsole, a fixing pin(9) which is inserted into the fixing pin inlet of the heel for the improvement of durability, a slope protrusion(12) which is formed in the upper side of an auxiliary heel, and a fixing device inlet(10) of the auxiliary heel.

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Inventors

KIM, MI SOOK

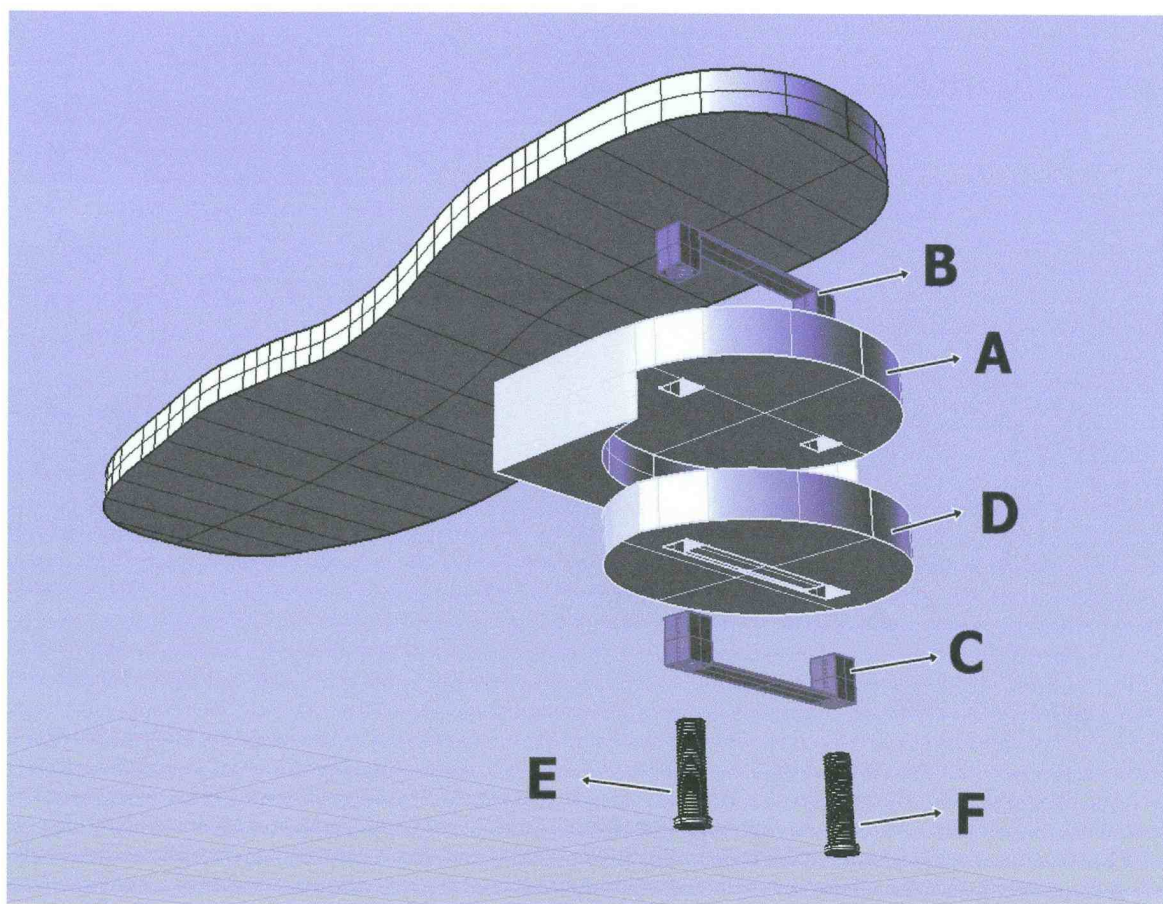
PARK, JEONG AE

Family 68/432 - FAMPAT - ©Questel

Title

(KR20100003133U)

Shoes change heel

Images**Publication data including kind & date**[KR20100003133](#)

U 2010-03-18

KR20100003133U

**Abstract**

(KR20100003133)

This invention relates to a worker and many men the hoofed signal as an improved shoes while the shoes to repair a primary signal in the direction of a curved bend shoe for exchange only replaced by switching to a new scene is bent twice without a house and the degree of two used to retain the shoe separating the curved cross driver, baked for exchange can

be easily replaced by anyone with the time and cost can be saved in the effect of the water tank.

Inventors

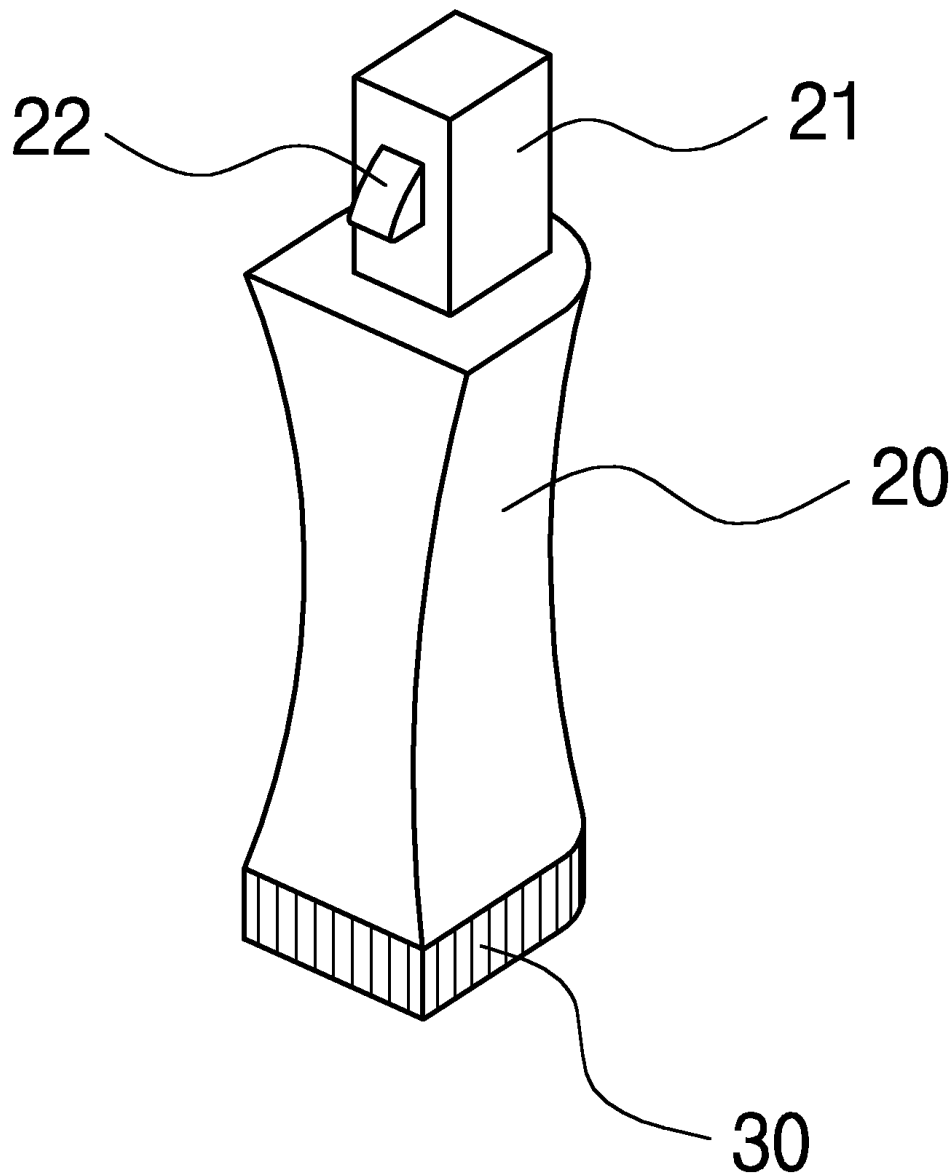
KIM, YONG-KEUN

Family 69/432 - FAMPAT - ©Questel

Title

(KR20090001578U)

The heel of shoes with separating function

Images**Publication data including kind & date**

[KR20090001578](#)

U

2009-02-18

KR20090001578U

**Abstract**

(KR20090001578)

The present invention relates to a shoe heel, and more particularly to a working by the engagement and disengagement of the heel height and heel and to adjust a color, increasing the number of the heel of a wearer so as to prevent the risk of

injury can be separated in a heel shoe of the present invention.

To this end, a heel shoe bottom window adjacent to the fixed heel, recessed groove and the bottom window insert, the insert groove to form a front hooking holes, wherein the insert fits into the groove to be formed on top of the heel insert protrusion, wherein the hooking holes can be hooked to a hooking protrusion protruding insert formed on the front surface features.

According to the above structure, the heel shoe through the engagement and disengagement of the shoe for adjusting the height of the work to change the color or style of rendition variety and, on the bottom surface of the heel of the sole 2 equipped, risk of injury to the wearer's effect may be also be blocked.

Inventors

HAN, BO HO

Family 70/432 - FAMPAT - ©Questel

Title

(FR-703635)

Shoe heel

Publication data including kind & date

[FR703635](#) A 1931-05-04 FR-703635



Inventors

BRIDI BASILIO

Family 71/432 - FAMPAT - ©Questel

Publication data including kind & date

[FR959037](#) A 1950-03-23 FR-959037



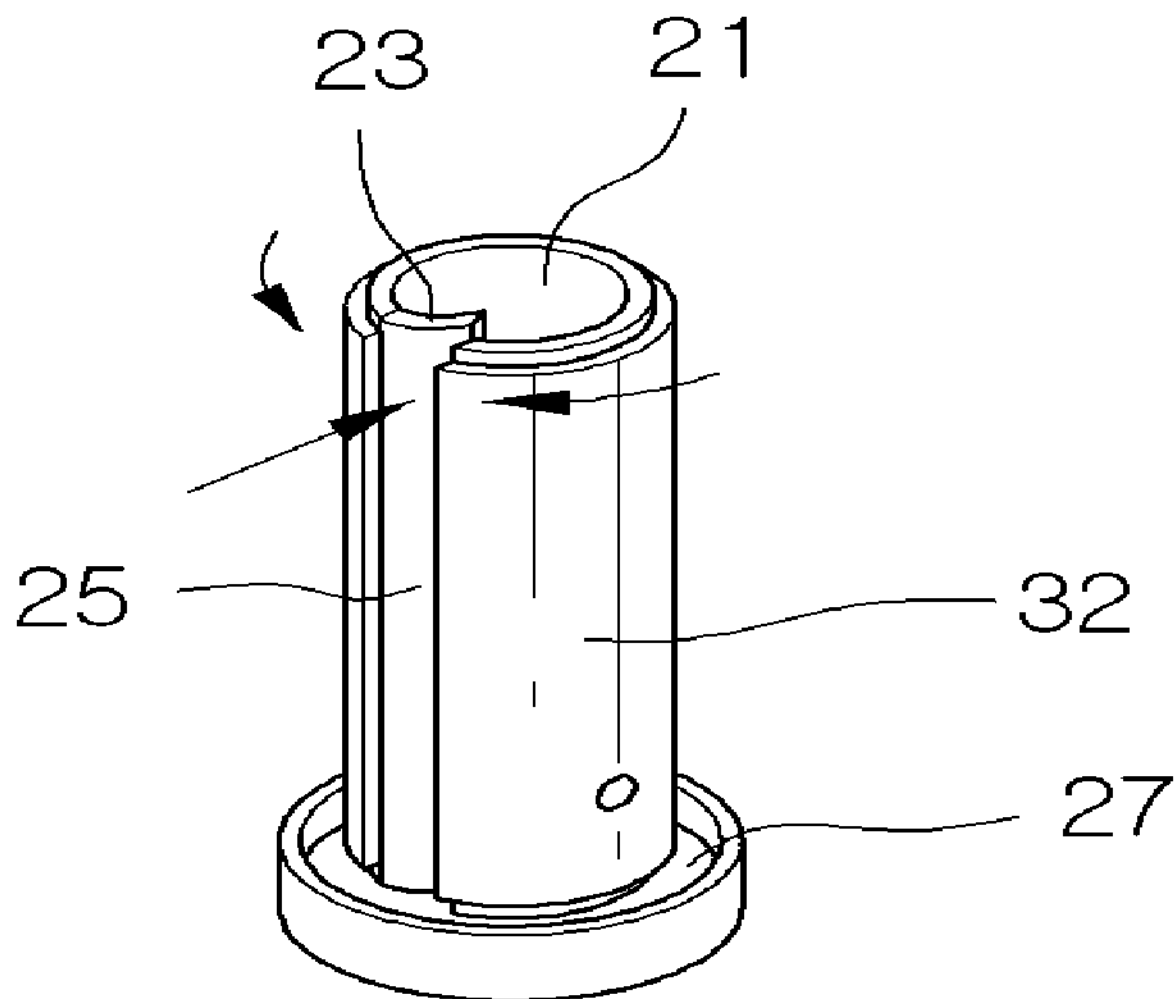
Family 72/432 - FAMPAT - ©Questel

Title

(WO2007126300)

Shoes having height controllable heel

Images

**Publication data including kind & date**

WO2007/126300	A1	2007-11-08	WO2007126300
KR200421307	Y1	2006-07-10	KR200421307U

**Abstract**

(WO2007/126300)

The present invention relates to a shoe capable of controlling a height, especially a high- heeled shoe, more specifically, to a shoe capable of easily controlling a height according to one's taste in shoes or dress.

Inventors

KIM YOUNG-JIN

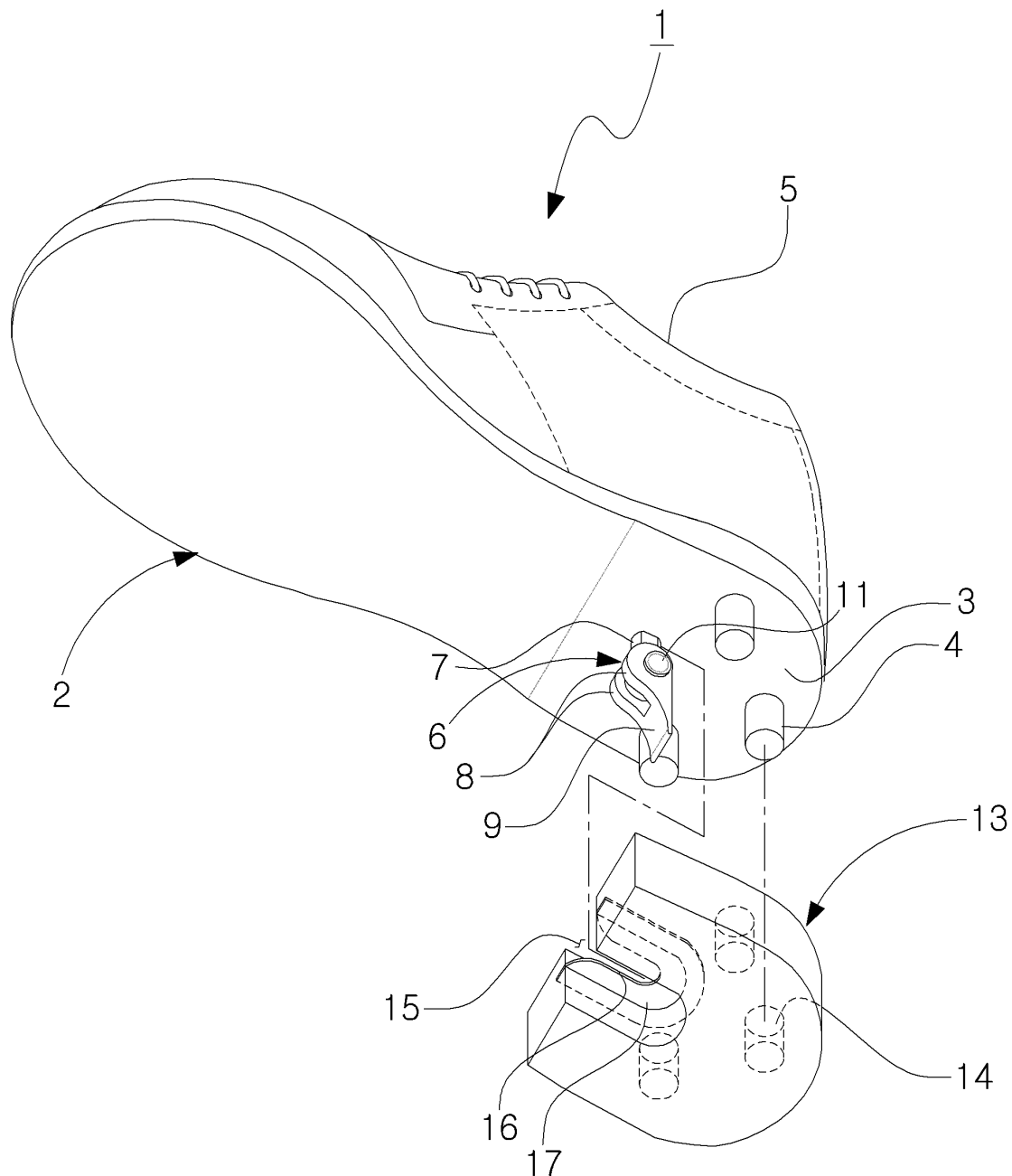
Family 73/432 - FAMPAT - ©Questel

Title

(KR200170954U)

Outer sole of shoes

Images

**Publication data including kind & date**

KR200479186

Y1 2015-12-30

KR200479186U

**Abstract**

(KR200479186)

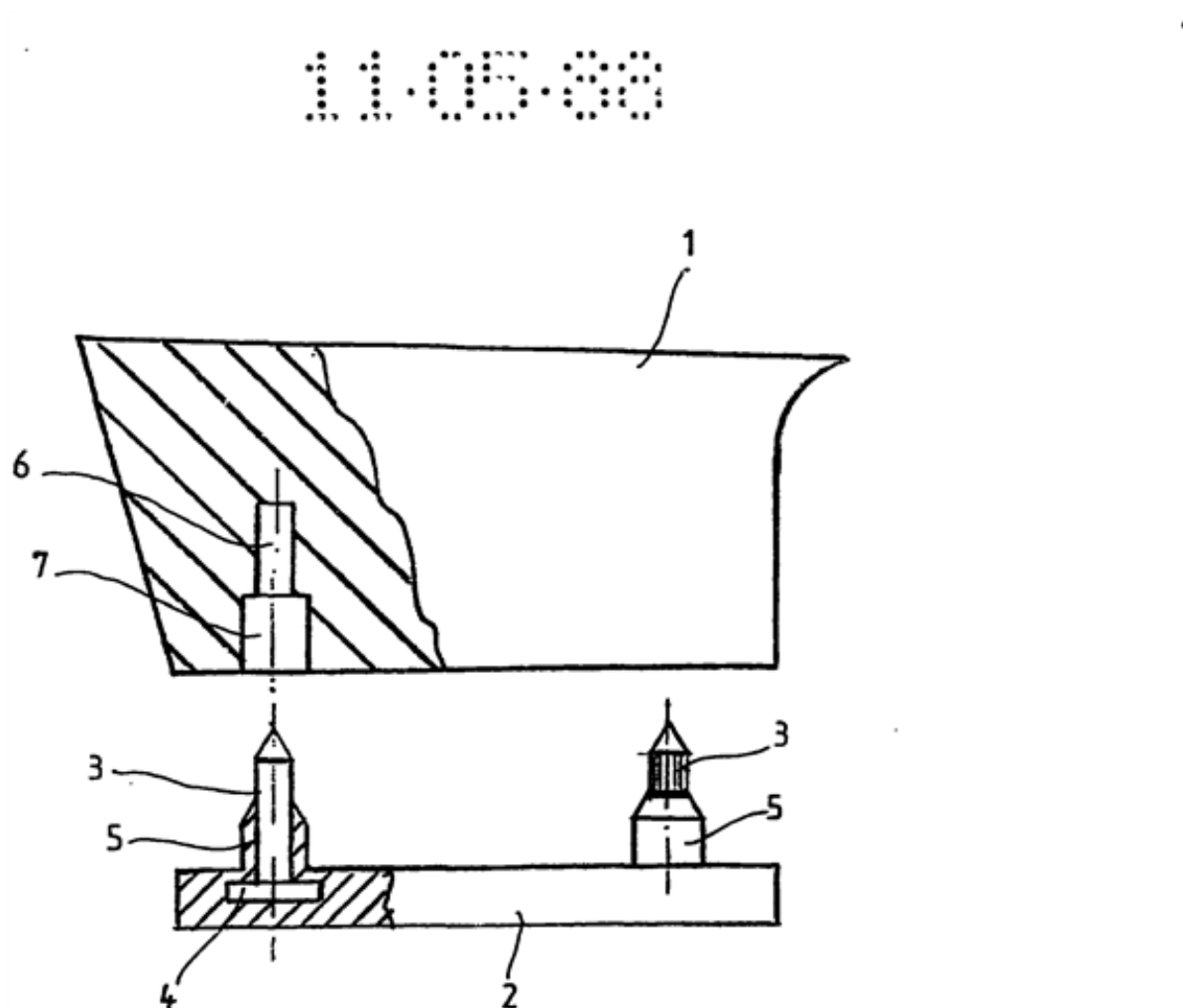
This idea the heel become desorption to the bottom department of the bottom piece and there to be in a shoes which is combined, and the minute description bottom piece to the bottom department rear angle part of the heel department where the heel is combined the multiple mind meal bud projection projection to be formed at below, among the bottom department front of the heel department to part the heel conclusion means to be had, and the minute description heel the meal bud projection of the bottom piece to correspond to a surface department rear angle part, insert and the multiple mind meal bud home which is combined to be formed, among the front to part the conclusion spatial addition where the front and the top and bottom open to the inside side of the conclusion space department to be formed among the front to part the guide home The conclusion petal which is formed horizontally to be caused to lie down, fixation established in the situation, the minute description heel conclusion means in the bottom piece below perpendicular fixation is located with the combination versus is established in minute description combination righteousness lower part right and left both sides, with the situation which became eccentricity rotates and the pressurization fixation petal of the pressurization fixation petal of couple which to combine and the pair which described minutely with all the low of connecting is become accomplished with the fabrication

handle, through conclusion space department of the heel combination price is inserted to the inside of the guide home and according to rotation fabrication of the fabrication handle in order the pressurization fixation petal of couple right and left both sides of the conclusion petal about under pressurizing the heel fixation to conclude at the upper part, About the heel shift style shoes which does with feature is a thing.

Inventors

SHIN, SOON KYUN

Family 75/432 - FAMPAT - ©Questel

Images**Publication data including kind & date**[DE8806258](#)

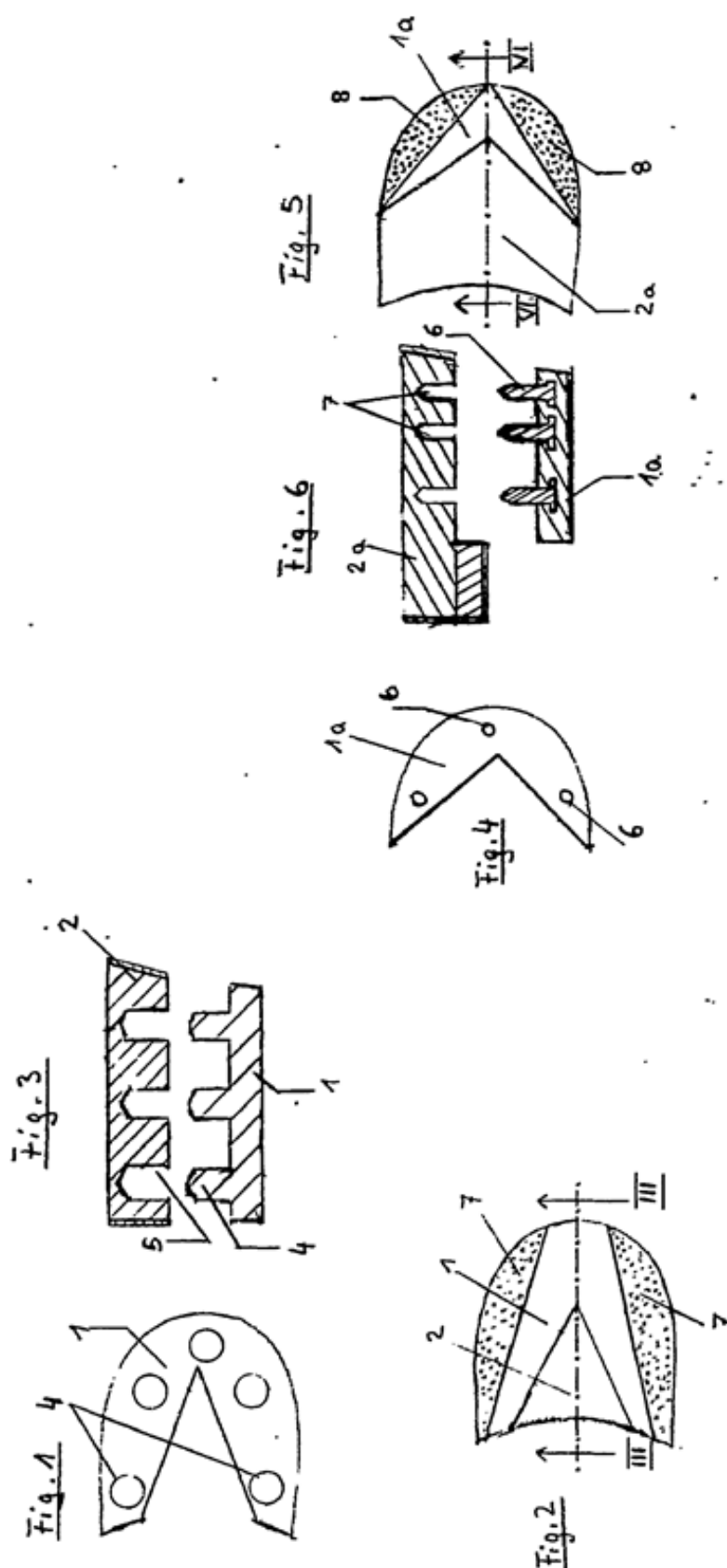
U1 1988-07-07 DE8806258

**Latest standardized assignees - inventors removed**

SEIBEL BENNO 6783 DAHN

Family 76/432 - FAMPAT - ©Questel

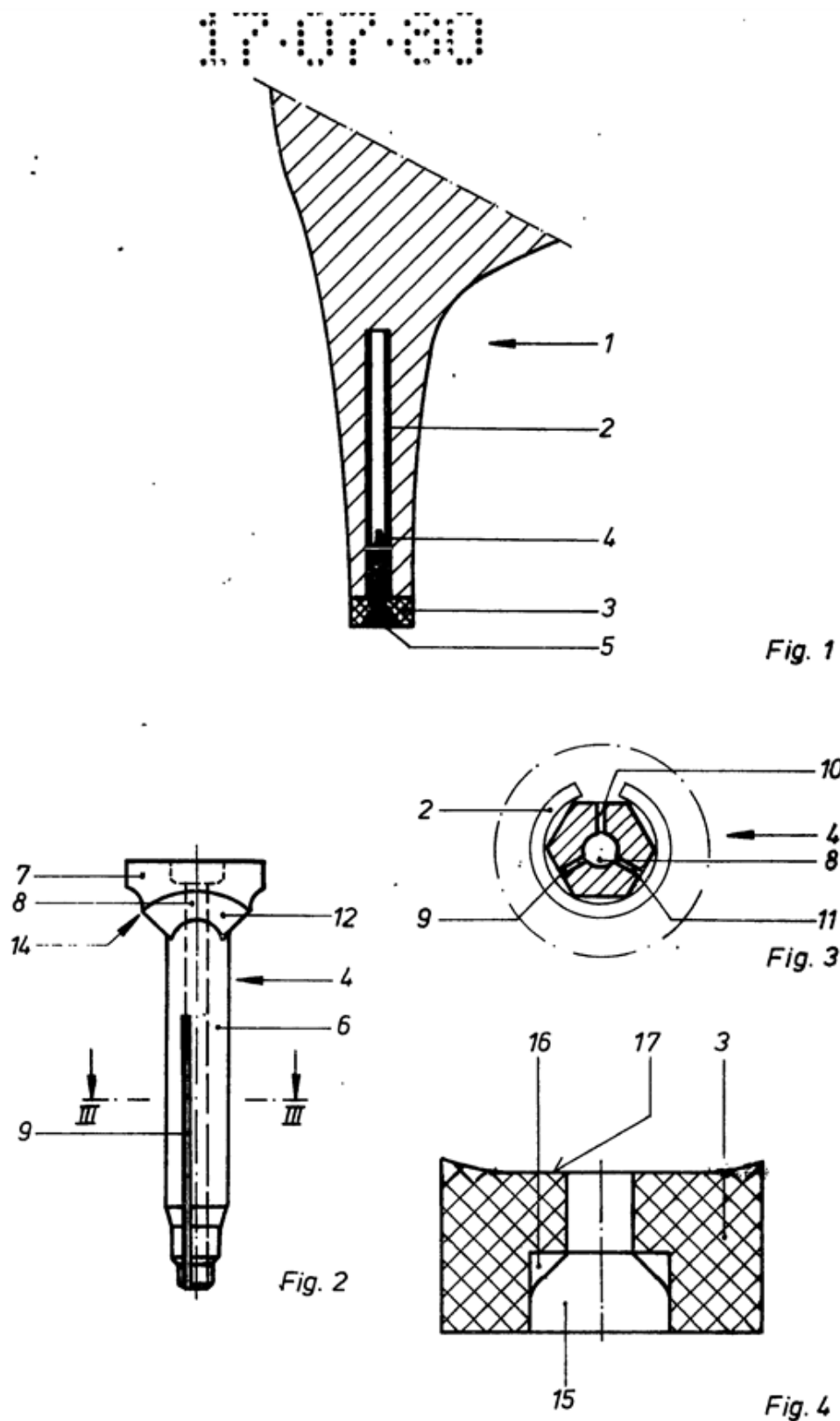
Images



KALLAY STEFAN 6078 NEU ISENBURG

Family 77/432 - FAMPAT - ©Questel

Images



Publication data including kind & date

[DE8019195](#)

U1 1980-11-13 DE8019195

Latest standardized assignees - inventors removed

BAYER HANS JOACHIM 6350 BAD NAUHEIM

Family 78/432 - FAMPAT - ©Questel

Title



(DE2742138)

Replacement shoe heel tread - is fixed to top heel part of shoe, and has protuberances round edge fitting into cavities on shoe

Images

Anmeldetag:
Offenlegungstag19. September 197
29 März 1979

2742138

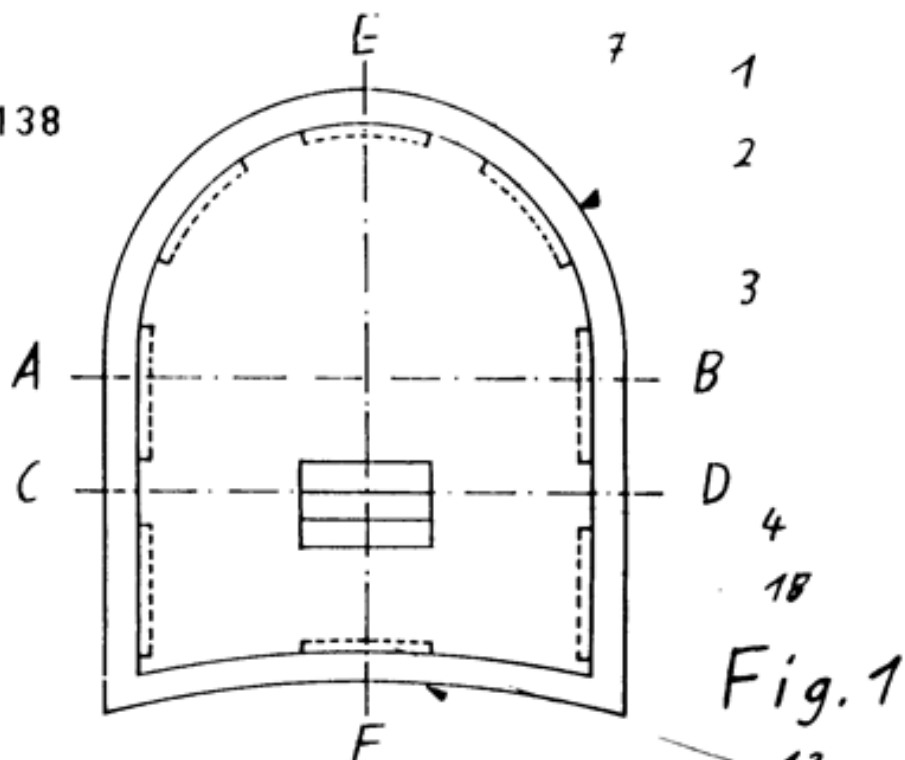


Fig. 1

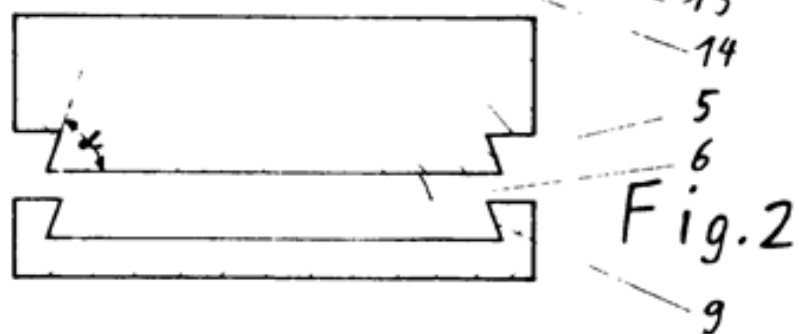


Fig. 2

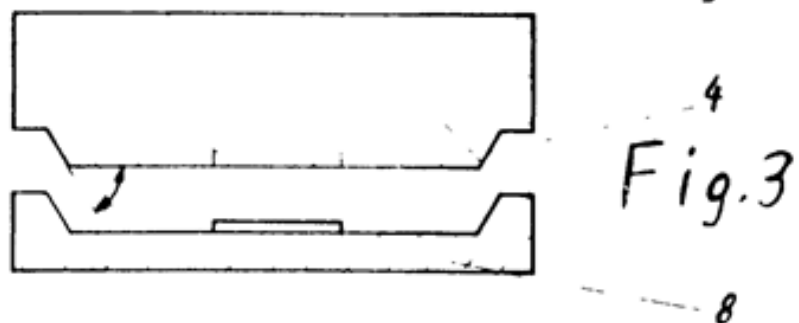


Fig. 3

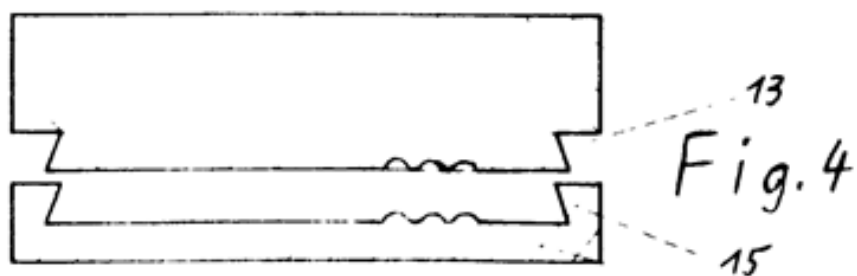


Fig. 4

Publication data including kind & date[DE2742138](#)

A1 1979-03-29 DE2742138

**Abstract**

(DE2742138)

The shoe heel consists of a top part (1) which is fixed to the shoe, and a tread part which is replaceable on the top part (1). The outer rim (2) of the top part (1) has a number of wedge-shaped cavities (3) in, the sides of which point inwards from the surface. Into the cavities (3) fit correspondingly shaped protuberances on the tread part. Between the cavities (3) are guide pieces (4). On the front edge (14) of the underneath part is at least one additional wedge-shaped cavity (13) into which fits a corresponding projection on the tread part. The sides of the guide pieces (4) point outwards from the surface. The sides of the guide pieces (4) and cavities (3) slant at an angle of roughly sixty degrees.

Inventors

JANZEN HARALD

Family 79/432 - FAMPAT - ©Questel

Title

(FR1494829)

Shoe heel to under-end replaceable

Publication data including kind & date[FR1494829](#)

A 1967-09-15 FR1494829

**Inventors**

ANTELO RODOLFO BARRIGA

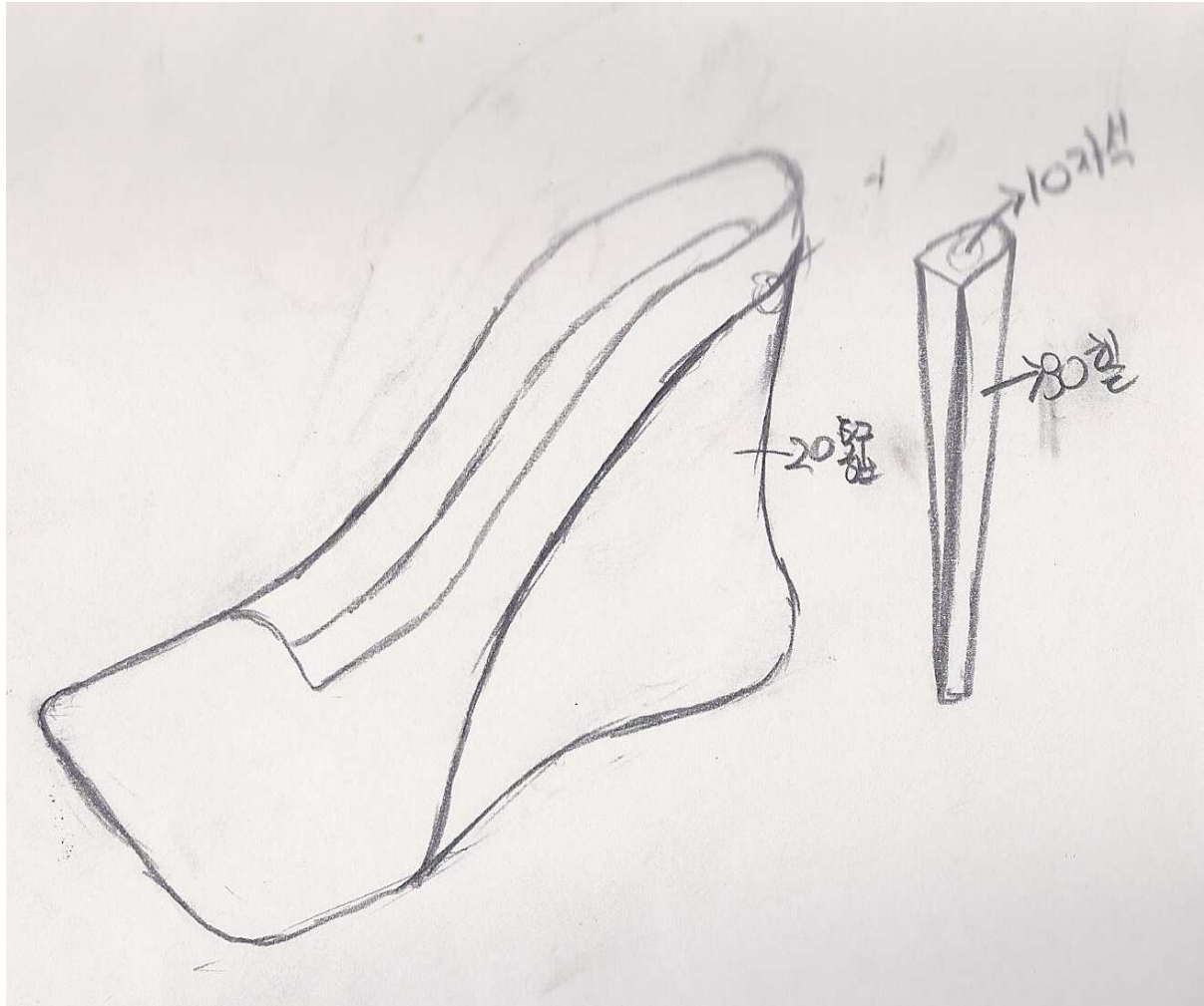
Family 80/432 - FAMPAT - ©Questel

Title

(KR20160000268U)

Replaceable heel women shoes with spikes through

Images

**Publication data including kind & date**[KR20160000268](#)

U

2016-01-25

KR20160000268U

**Abstract**

(KR20160000268)

As a result of the curve shift about the possible feminine shoes that, the feminine shoes wants the convenient style as as a result of this idea Hill and the shift can do Hill and the curve shift about the possible feminine shoes is the thing.

Inventors

KIM, SEUNG HYEOK

SHIN GyeongBeom

SONG, CHI HO

YOON, HYE JIN

Songsucheon

KIM, GANG SEOP

Family 81/432 - FAMPAT - ©Questel

Title

(EP2247211)

Device for protecting heels

Images

wherein the opposite end wall is configured in a slotted manner.

Inventors

MUELLER MARTIN

Latest standardized assignees - inventors removed

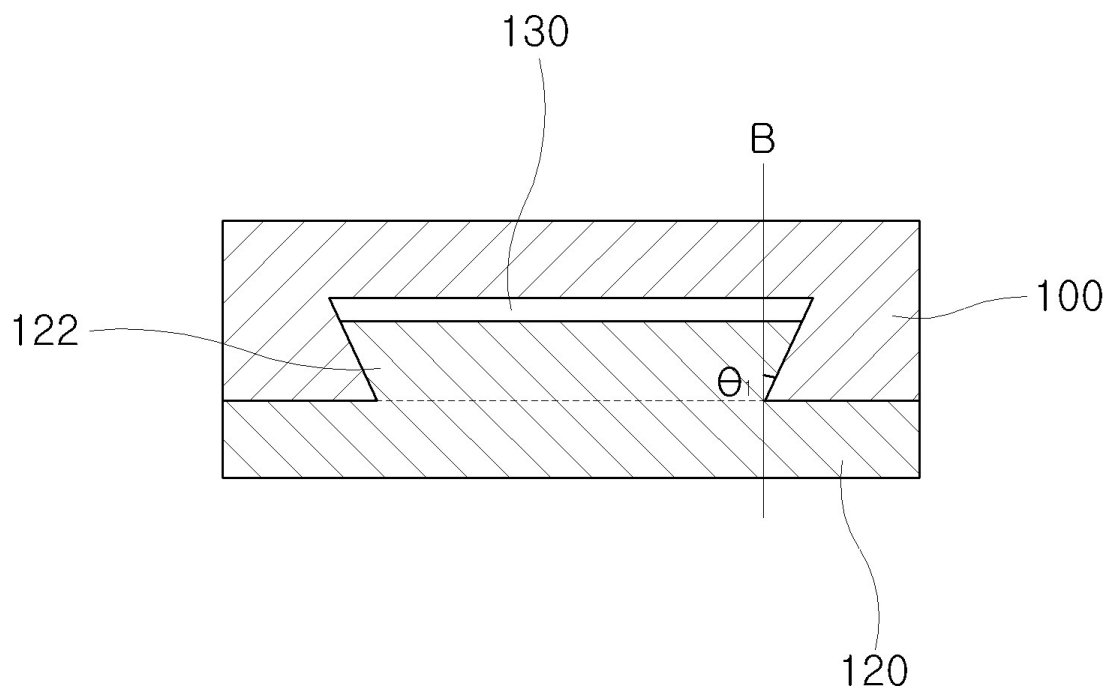
HEELDICE

Family 82/432 - FAMPAT - ©Questel

Title

(KR101000722)

Heel shoe including detachable subheel

Images**Publication data including kind & date**

[KR101000722](#)

B1 2010-12-14

KR101000722

[KR20090083031](#)

A 2009-08-03

KR20090083031

**Abstract**

(KR20090083031)

Shoes having a heel are provided, which make a heel light by forming a groove on the heel while not mounting a secondary heel on the heel. Shoes having a heel capable of attaching and detaching a secondary heel comprise: a base plane of the heel; and a groove and a protrusion(122) which are formed to go in gear with the secondary heel combined with the base plane. The groove and protrusion have a part forming a reverse slope in the vertical section. The groove is formed in the heel. The protrusion is formed in the secondary heel(120).

Inventors

KO, YOUNG-SIK

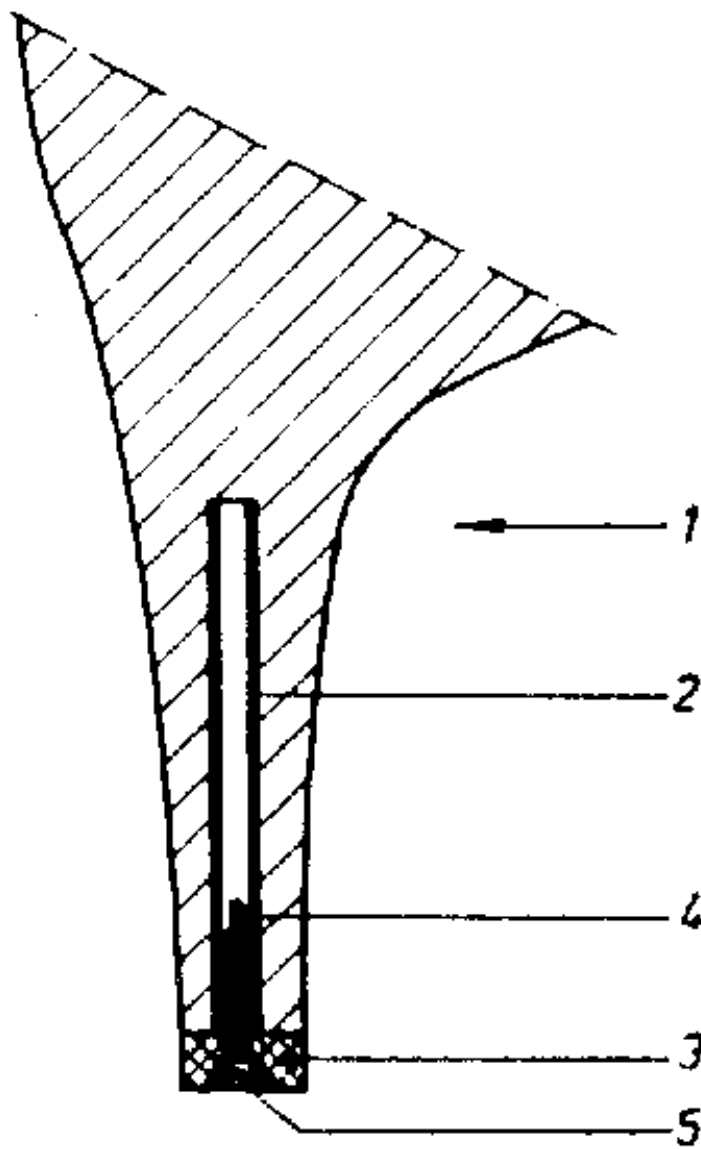
Family 83/432 - FAMPAT - ©Questel

Title

(DE3027055)

Heel tip attachment for high heeled shoe - consists of expander sleeved pin inserted into tension sleeve, with slits

Images

*Fig. 1***Publication data including kind & date**[DE3027055](#)

A1 1982-02-11

DE3027055

**Abstract**

(DE3027055)

The attachment for a tip onto the high heel of a shoe allows it to be renewed, and consists of a pin driven into the sleeve (2) in the shoe heel. The pin is in the form of a plastics expander sleeve (4) into which a nail is driven, after the tension sleeve has been inserted. The expander sleeve (4) has a polygonal (hexagonal) cross-section, and has three lengthwise slits (9,10,11) round its shaft.

Inventors

BAYER HANS-JOACHIM

Family 84/432 - FAMPAT - ©Questel

Title

(FR1409019)

Improvements to ladies high heel shoes to

Publication data including kind & date[FR1409019](#)

A 1965-08-20

FR1409019

**Latest standardized assignees - inventors removed**

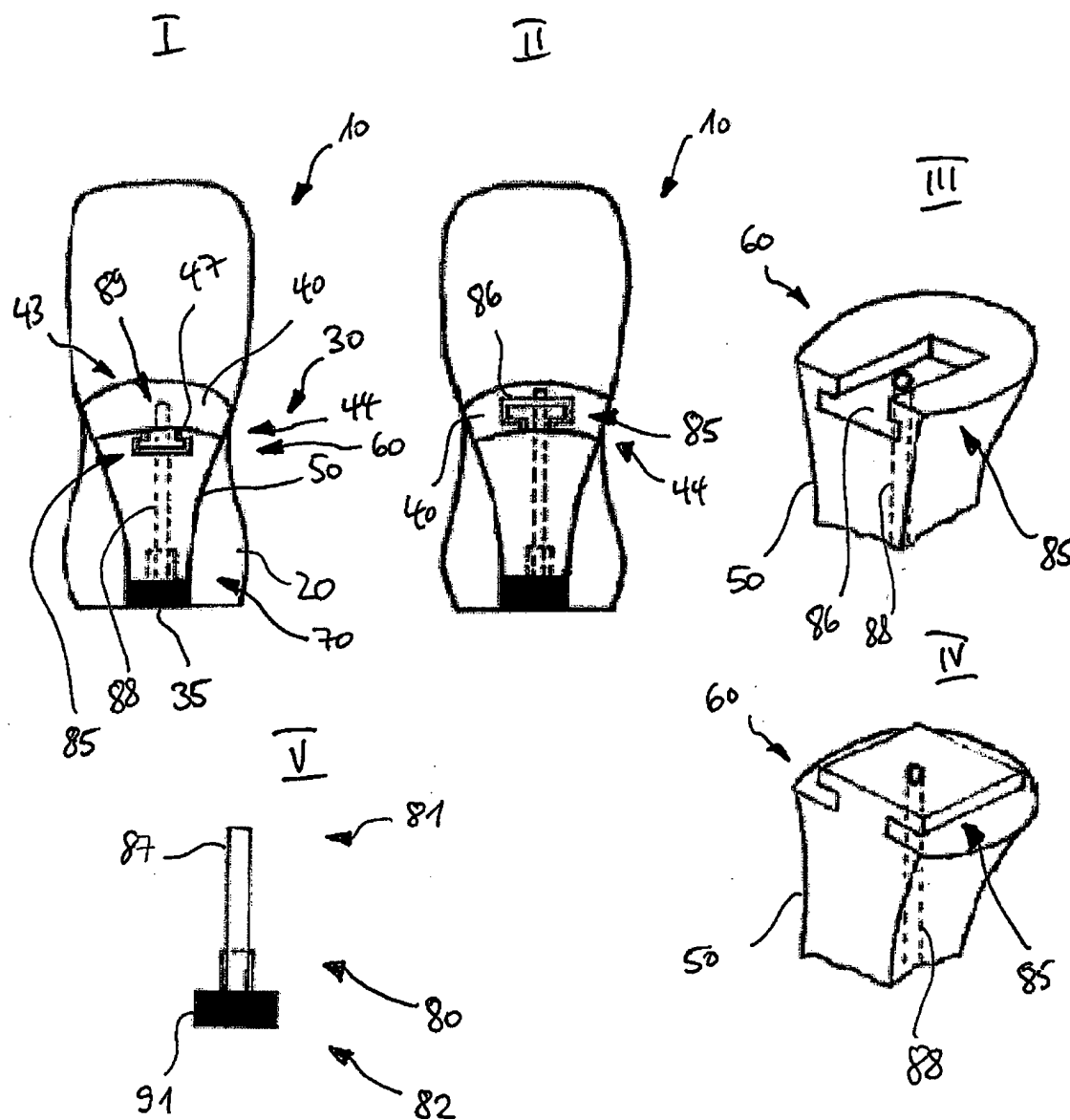
CROWN ENTPR

Family 85/432 - FAMPAT - ©Questel

Title

(DE102010043214)

Variable heel for lady shoe, has coupling element engaging in heel elements when heel elements are in engagement, and fixed with safety element i.e. bolt head, at both ends against displacement relative to heel elements

Images**Publication data including kind & date**[DE102010043214](#)

A1 2012-05-03

DE102010043214

**Abstract**

(DE102010043214)

The heel (30) has a heel element (40) connected with a shoe sole (20) at an end (43). An end (60) of another heel element (50) and another end (44) of the former heel element are brought into engagement by a guide device (85). A coupling element (80) e.g. bolt, engages in the heel elements when the heel elements are in engagement. The coupling element is fixed with a safety element i.e. bolt head (91), at both ends (81, 82) against displacement relative to the heel elements. The coupling element is engaged with the guide device. An independent claim is also included for a shoe comprising a sole.

Inventors

GRZENIA VIOLETTA

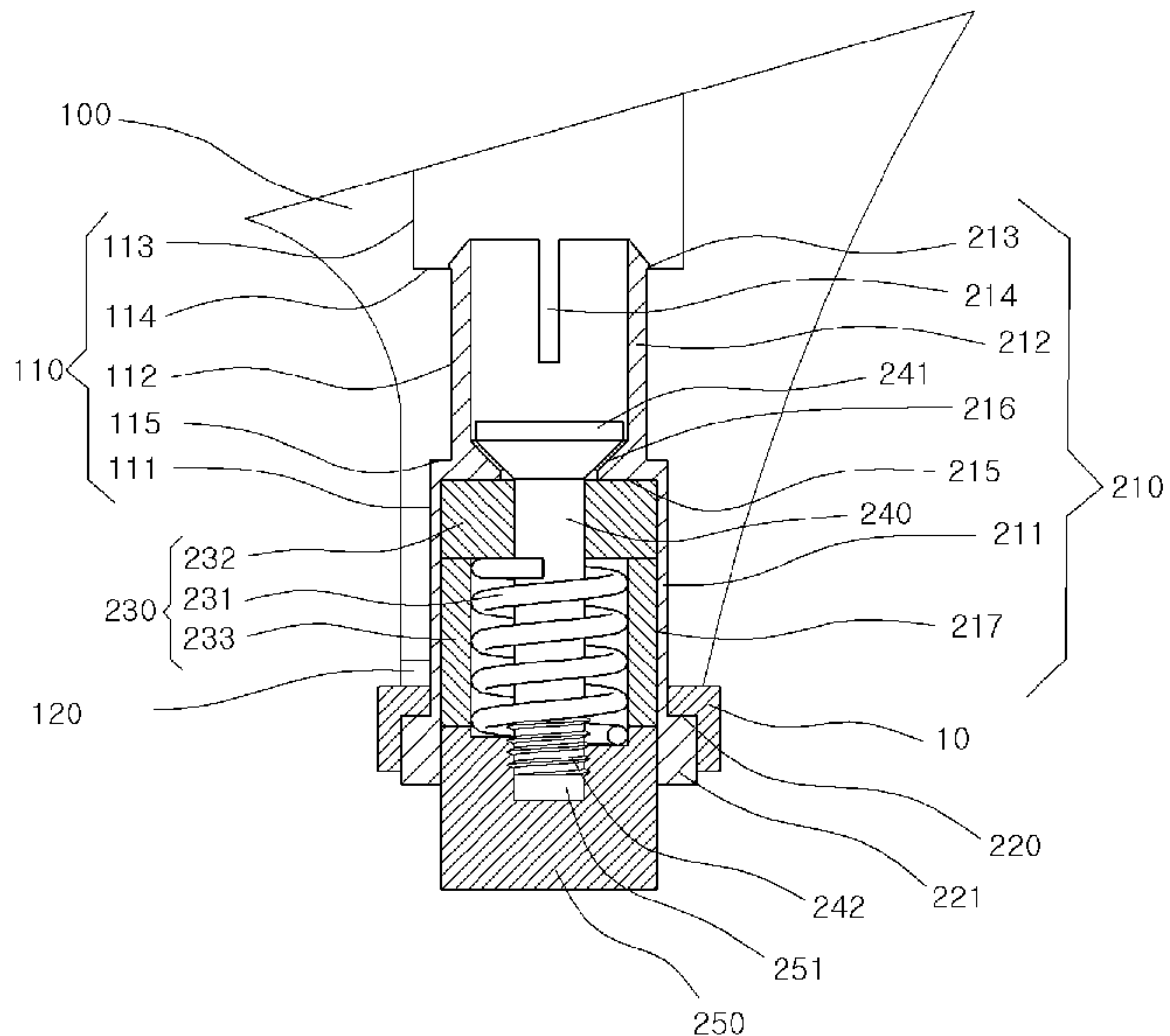
WAGNER ANDREAS

Family 86/432 - FAMPAT - ©Questel

Title

(EP3338583)

Shoes having reinforcing structure for heel

Images**Fig. 4****Publication data including kind & date**

EP3338583	A4	2018-08-22	EP3338583
EP3338583	A1	2018-06-27	EP3338583
CN207411600	U	2018-05-29	CN207411600U
WO2017/030224	A1	2017-02-23	WO201730224

**Abstract**

(EP3338583)

The present disclosure relates to a heel-reinforced shoe in which a mounting structure of a detachable member (100) replaceably mounted on the heel body (200) is reinforced so as to improve the abrasion and damage resistance not only of the detachable member, which is replaceable in abrasion and damage, but also of the heel body (200), which is integrated with the shoe and thus is non-replaceable. The heel-reinforced shoe is provided with a heel (100), (200) including: a heel body (100) fixed to a rear portion of the bottom surface of the shoe, and having a groove (110) formed in the bottom surface thereof; and a detachable member (200) including an insertion portion (210) inserted into and fixed to the groove (110) in the heel body (100), and an upper contact surface (220) formed around the insertion portion (210) to be in close contact with the bottom surface of the heel body (100), so that the detachable member (200) is made to be replaceable. A reinforcing frame is interposed between the upper contact surface (220) of the detachable member (200) and the bottom surface of the heel body (100).

Inventors

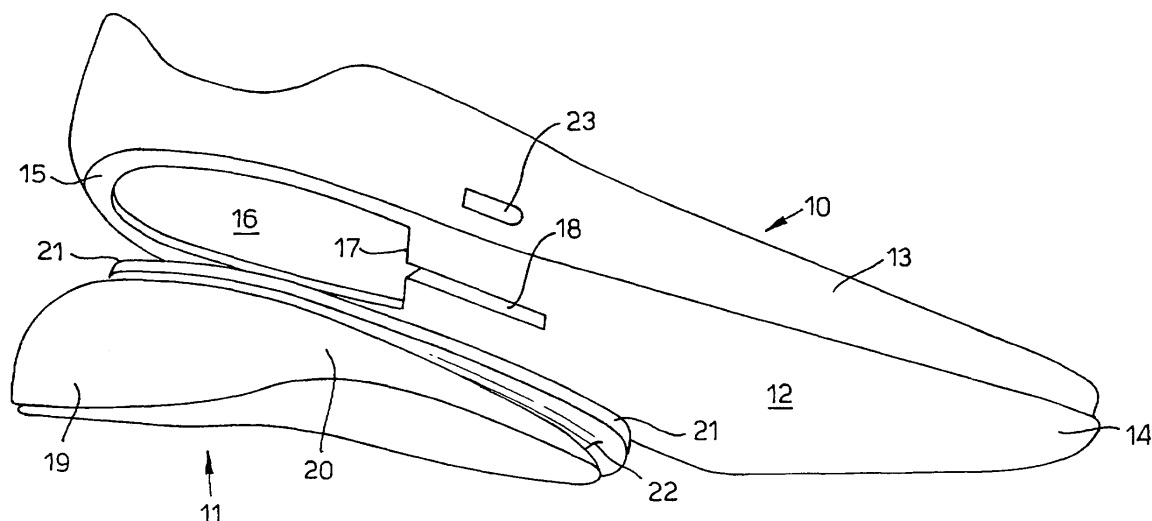
GO JONG TAEK

Family 87/432 - FAMPAT - ©Questel

Title

(EP1282371)

Shoes

Images**Publication data including kind & date**

US20070256330	A1	2007-11-08	US20070256330
VN0006293	B	2007-05-25	VN---6293B
US7168184	B2	2007-01-30	US7168184
DE60116865	T2	2006-11-02	DE60116865
ES2257402	T3	2006-08-01	ES2257402
CN1263408	C	2006-07-12	CN1263408C
JP2006122718	A	2006-05-18	JP2006122718
DE60116865	D1	2006-04-13	DE60116865
AT316343	T	2006-02-15	ATE316343
EP1282371	B1	2006-01-25	EP1282371
GB2377876	B	2004-03-03	GB2377876
JP2003530179	A	2003-10-14	JP2003530179
US20030163934	A1	2003-09-04	US20030163934
CN1430477	A	2003-07-16	CN1430477
EP1282371	A1	2003-02-12	EP1282371
GB2377876	A	2003-01-29	GB2377876
GB0226484	D0	2002-12-18	GB200226484
AU4672701	A	2001-10-30	AU200146727
WO01/78543	A1	2001-10-25	WO200178543

**Abstract**

(EP1282371)

A shoe incorporates a flexible member (10, 40) which, by itself, is capable of a variety of configurations. A heel (20, 49) incorporates a stiffening member (21, 51) which mechanically interlocks with the flexible member (10, 40) to both shape it and provide it with sufficient rigidity to support a foot. The heel (20, 49) can be detached from the flexible member (10, 40) to allow the replacement of one heel with a different heel.

Inventors

WALLIN ROSEMARY JANE

SWAN JULIAN FRANCIS RALPH

SHADE PHILIP RICHARD

Latest standardized assignees - inventors removed

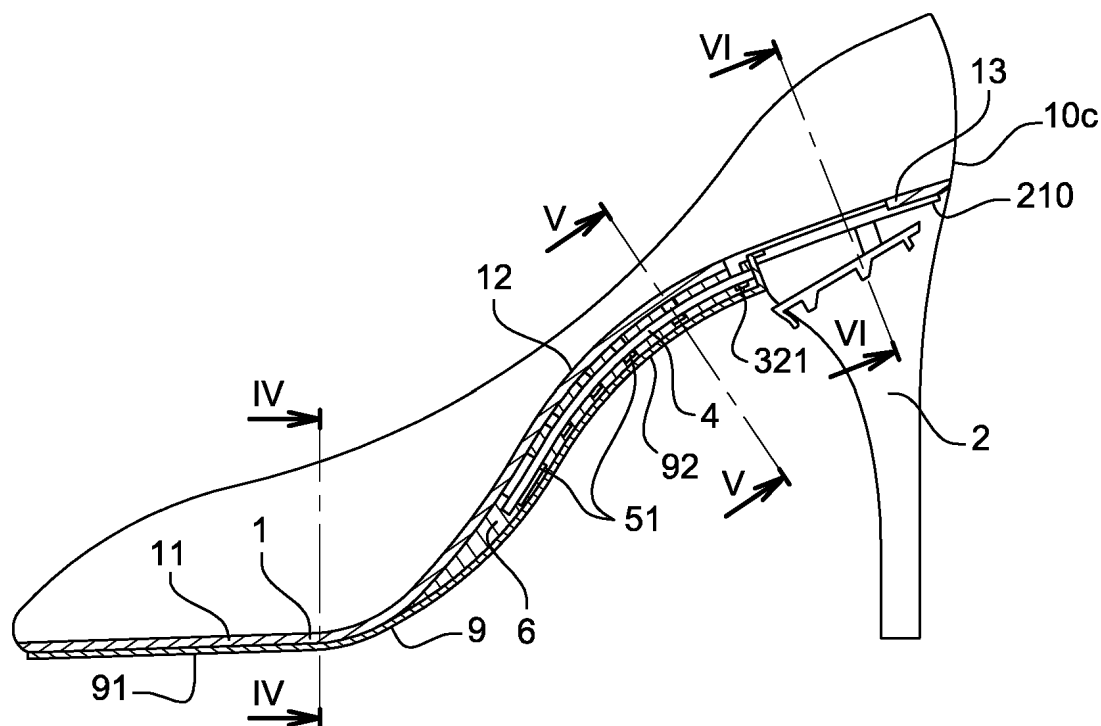
KIT SHOE

Family 88/432 - FAMPAT - ©Questel

Title

(EP2991522)

Shoe with a removable interchangeable heel and variable curvature

Images**Publication data including kind & date**

EP2991522	B1	2017-04-12	EP2991522
JP2016518930	A	2016-06-30	JP2016518930
US20160073725	A1	2016-03-17	US20160073725
EP2991522	A1	2016-03-09	EP2991522
FR3005243	B1	2015-05-01	FR3005243
WO2014/181058	A1	2014-11-13	WO2014181058
CA2910056	A1	2014-11-13	CA2910056
FR3005243	A1	2014-11-07	FR3005243

**Abstract**

(EP2991522)

The shoe with a removable heel comprises an insole (1) and a removable heel (2) arranged to be rigidly and removably assembled with a rear part (11) of the insole. The heel is linked to an arch (4) extending in a longitudinal direction from the insole and engaging with guide means located in said central part (12) and rigidly connected to the insole, the arch having a longitudinal profile predefined so as to adapt the curvature of the insole in said central part on the basis of the height of the heel, and the guide and retaining means (51, 321) are concealed by a central part of the sole (9).

Inventors

GUENOUN GREGORY ELIE

Latest standardized assignees - inventors removed

IMP SHOES

Family 89/432 - FAMPAT - ©Questel

Title

(WO2019129938)

Device for attaching interchangeable heels for shoes with two springs

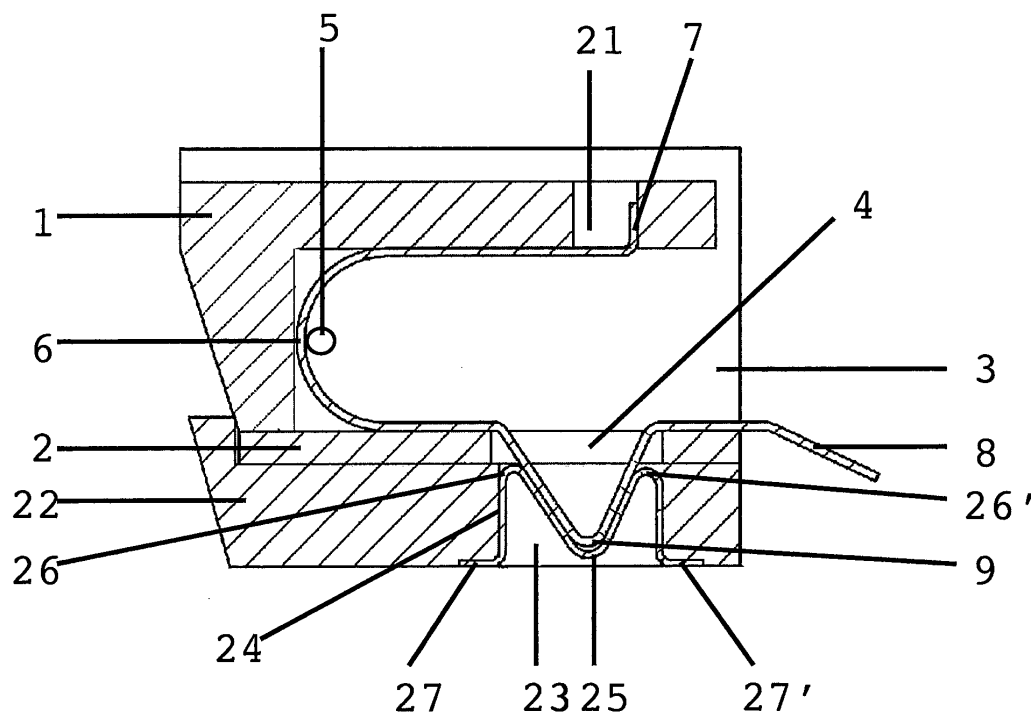
Images

Figure 2

Publication data including kind & date[WO2019/129938](#)

A1 2019-07-04

WO2019129938

**Abstract**

(WO2019/129938)

A device for attaching removable interchangeable heels for shoes. The invention concerns the use of a system for locking and unlocking interchangeable heels in order to change heels as desired, while keeping the same pair of shoes. The device comprises a base with tenon, called the housing (1), in which a flat locking spring (6) is located, and a mortise part (22) in which a second flat spring (24) is inserted. The mortise and tenon assembly is locked when the two flat springs (6; 24), having complementary shapes, come into contact and immobilise one another. The user can act on the tab (8) of the locking flat spring (6) in order to pivot same and unlock the heel. The flat spring (6) automatically returns to its initial position due to its elasticity, when the user releases it. The device of the invention is intended, in particular, for the production of shoes with interchangeable heels.

Inventors

CHERIF-CHEIKH MARGAUX

Family 90/432 - FAMPAT - ©Questel

Title

(EP3267829)

Shoe provided with removable soles

Images

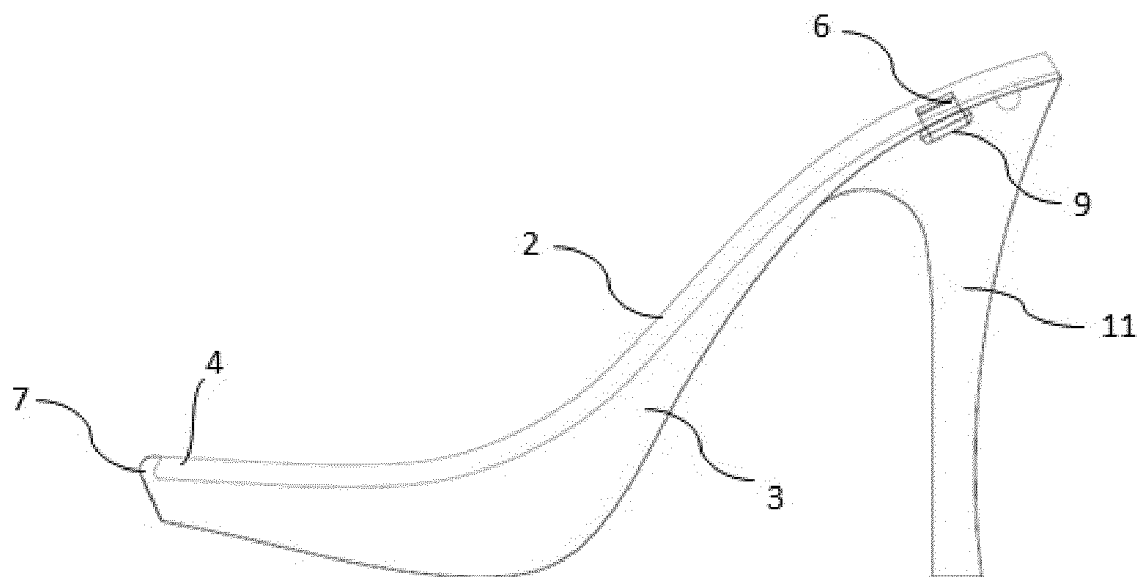


FIG. 2B

Publication data including kind & date

EP3267829	A1	2018-01-17	EP3267829
WO2016/146531	A1	2016-09-22	WO2016146531
BE1022832	A1	2016-09-16	BE1022832



Abstract

(EP3267829)

The present invention relates to a height-adjustable shoe (1) characterised in that it comprises: a flexible sole (2) comprising a forward attachment means (4) of the flexible sole and a rearward attachment means (6) of the flexible sole, and a stem (10); at least one rigid walking sole (3') interchangeable with a second rigid walking sole (3), the second rigid walking sole having a heel (11) of a different height from that of the first rigid walking sole (3), each rigid walking sole (3,3') extending, during use, over the entire length of the foot and comprising a forward attachment means (7) of the rigid sole that is complementary to the forward attachment means of the flexible sole (4) and a rearward attachment means (9) of the rigid sole that is complementary to the rearward attachment means (6) of the flexible sole, at least one of the rigid walking soles comprising a high heel of at least 3 cm.

Inventors

WILKET MELISSA

Latest standardized assignees - inventors removed

FEMMES TOUT TERRAIN

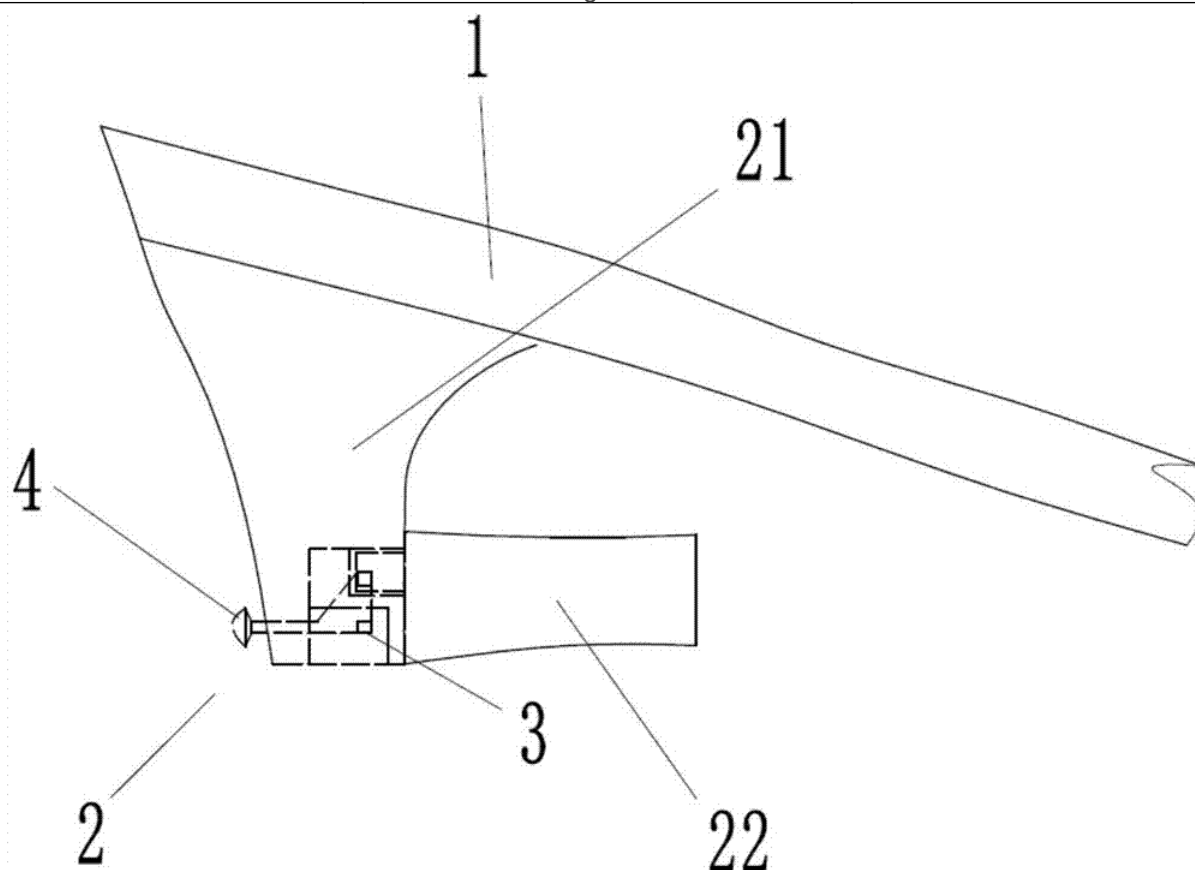
Family 91/432 - FAMPAT - ©Questel

Title

(CN109171099)

Heel-exchangeable high-heeled shoe

Images

**Publication data including kind & date**

CN109171099

A

2019-01-11

CN109171099

**Abstract**

(CN109171099)

The present application provides a heel-exchangeable high-heeled shoe, including a sole and a heel, wherein the heel comprises an upper heel body and a lower heel body; the upper heel body is fixedly connected with the sole; a locking mechanism is arranged in the bottom cavity of the upper heel body; the bottom surface of the upper heel body is also provided with a first clamping groove; the inner surface of the upper heel body is provided with a second clamping groove; when a pair of clip protrusions of the lower heel body are cooperatively connected with the first clamping groove, lower clips on both sides of a lock lever of the locking mechanism is engaged with lock holes on the corresponding clip protrusions to lock the lower heel body; when a pair of clip protrusions of the lower heel body are cooperatively connected with the second clamping groove, upper clips located on both sides of the lock lever are cooperatively connected with the lock holes located on the corresponding clip protrusions to lock the lower heel body, and when the lock lever moves outward, the pair of lower clips and the pair of upper clips are respectively close to each other to release the lower heel body. The heel-exchangeable high-heel shoe provided by the application can meet three kinds of state changes of a heel, is convenient to use and durable to use.

Inventors

CHEN JI

ZHANG QINGYAN

Latest standardized assignees - inventors removed

WENZHOU ZHISHANG ART DESIGN

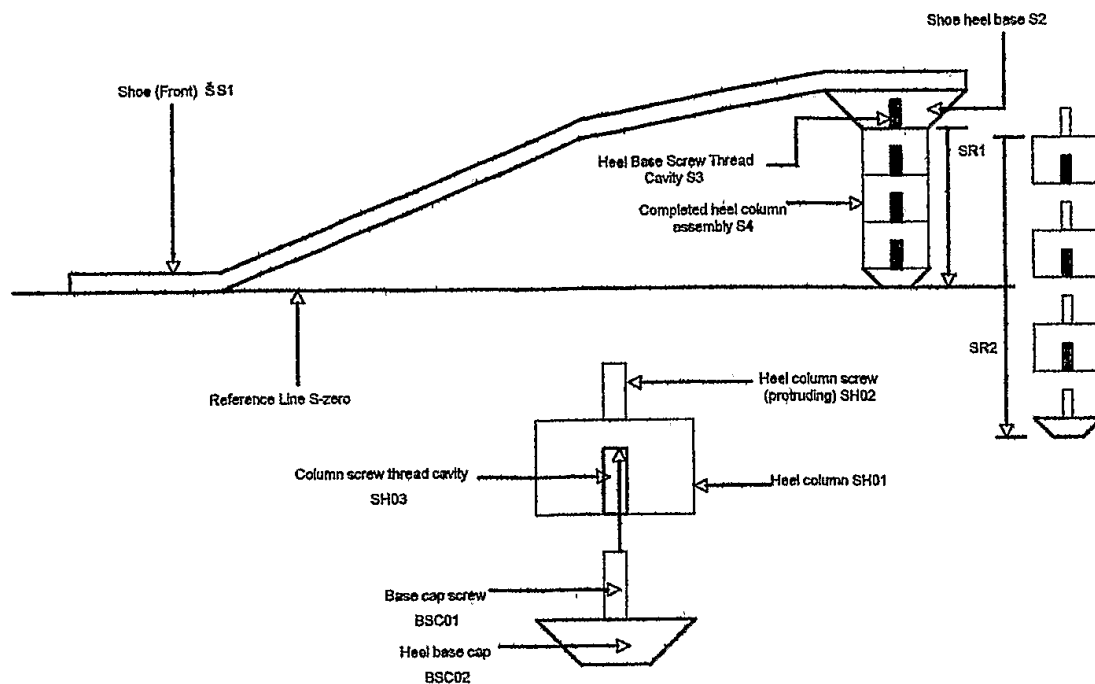
Family 92/432 - FAMPAT - ©Questel

Title

(WO200737767)

Method and apparatus for extensible heel

Images



Publication data including kind & date

US20080263898	A1	2008-10-30	US20080263898
SG130970	A1	2007-04-26	SG-130970
WO2007/037767	A1	2007-04-05	WO200737767



Abstract

(WO2007/037767)

The present invention relates to a method and apparatus for a ladies shoe to be constructed of a heel comprising multiple heel columns each attached as desired by the user to attain the preferred heel length.

Inventors

GUEH HOW KIAP

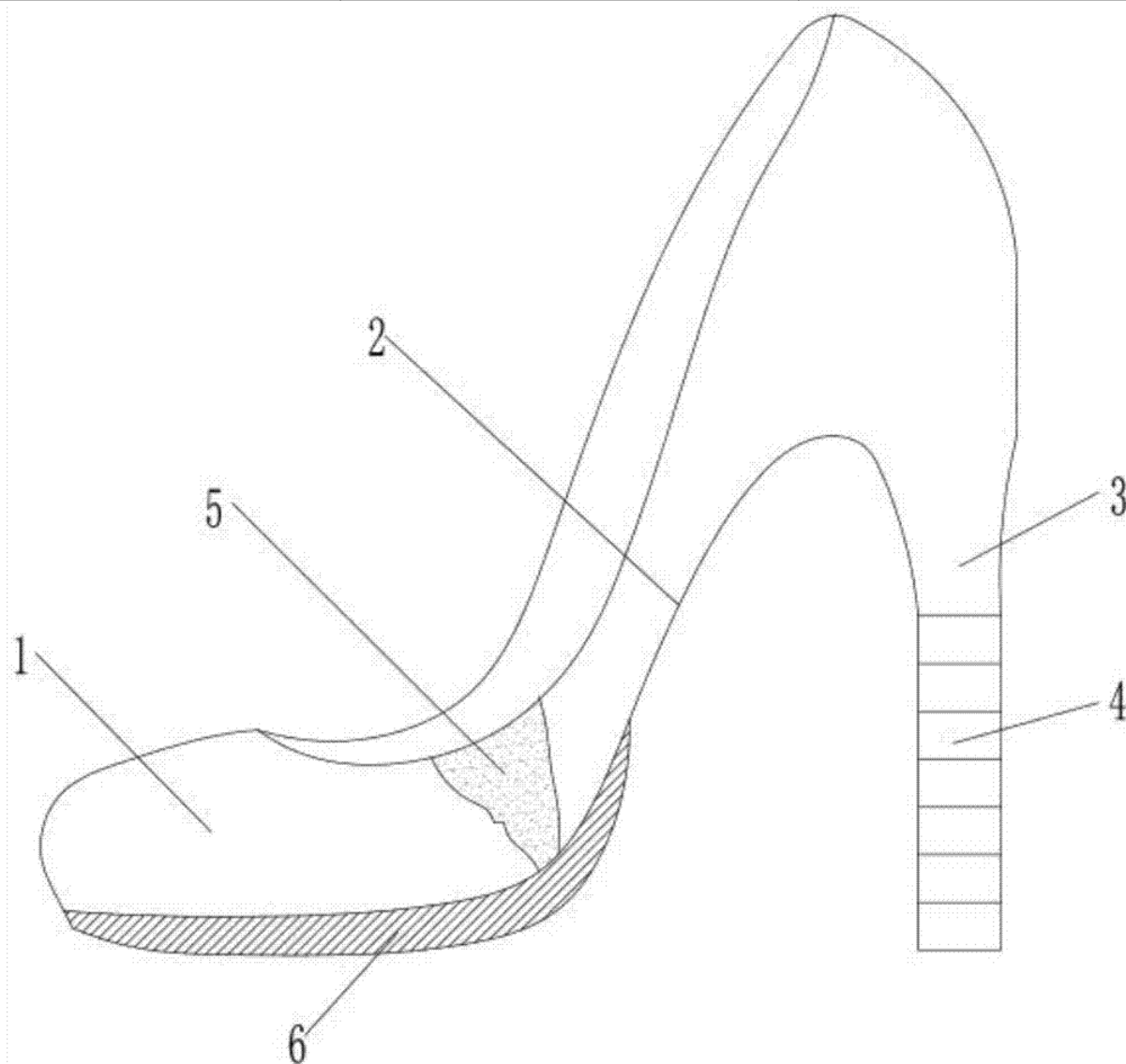
Family 93/432 - FAMPAT - ©Questel

Title

(CN109288195)

High-heeled shoe with adjustable heel height

Images

**Publication data including kind & date**[CN109288195](#)

A 2019-02-01 CN109288195

**Abstract**

(CN109288195)

The invention discloses a high-heeled shoe with the adjustable heel height. The shoe comprises a half sole part, an arch part, a fixed heel and a shoe sole. A long T-shaped groove is formed in the bottom of the fixed heel, the bottom of the fixed heel is connected with movable heels through the T-shaped groove, T-shaped protrusions matched with the T-shaped groove are arranged at the tops of the movable heels, and T-shaped grooves are also formed in the bottoms of the movable heels; the sizes and structures of all the heels are equal, and an anti-skid pattern is arranged at the bottom of the shoe sole. The high-heeled shoe has the advantages that the number of movable heels matched with the fixed heel can be selected to adjust the heel height of the high-heeled shoe, adjustment is conveniently and flexibly conducted, by forming a drug storage cavity, fresh air in the shoe can be guaranteed, and the whole shoe is simple in overall structure and convenient to adjust.

Inventors

LIU GUANGYOU

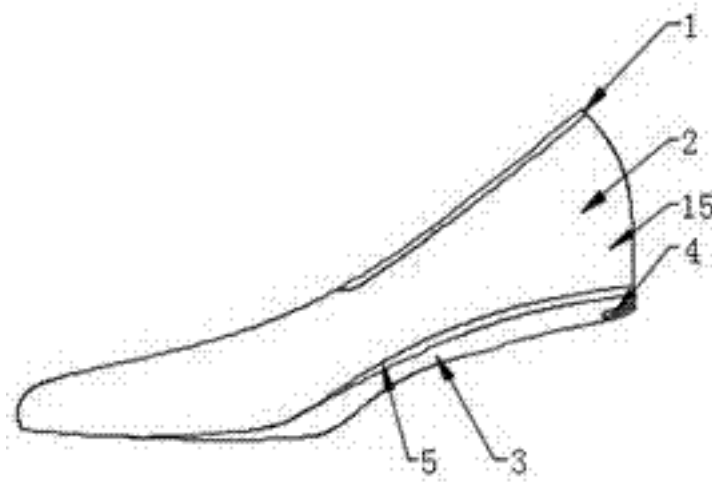
Family 94/432 - FAMPAT - ©Questel

Title

(CN107898051)

High-heeled shoes changeable in shoe type

Images

**Publication data including kind & date**[CN107898051](#)

A

2018-04-13

CN107898051

**Abstract**

(CN107898051)

The invention discloses a pair of high-heeled shoes changeable in shoe type. Each shoe comprises a shoe body, a heel body, a high heel and a low heel, wherein the shoe body is composed of a main shoebody arranged at the top of the shoe body and a shoe sole arranged at the bottom of the shoe body, a heel clamping groove is formed in one side of the bottom of the shoe sole, and the heel clamping groove is embedded into the shoe sole. The pair of high-heeled shoes changeable in shoe type is provided with a variety of heels and is changeable in shoe type, the shoe bodies are a pair of flat-soled woman leather shoes, if a wearer needs to wear the high-heeled shoes, high heels can be embedded into the heel clamping grooves, the shoes are changed into high-heeled shoes at the moment, if the wearer needs a pair of stable high-heeled shoes, the heel bodies can be embedded into the heel clamping grooves, if the wear needs to drive a vehicle, the heels can be removed, the shoe bodies are changed into the flat-soled shoes, and a comfortable effect is provided.

Inventors

NI WEIYONG

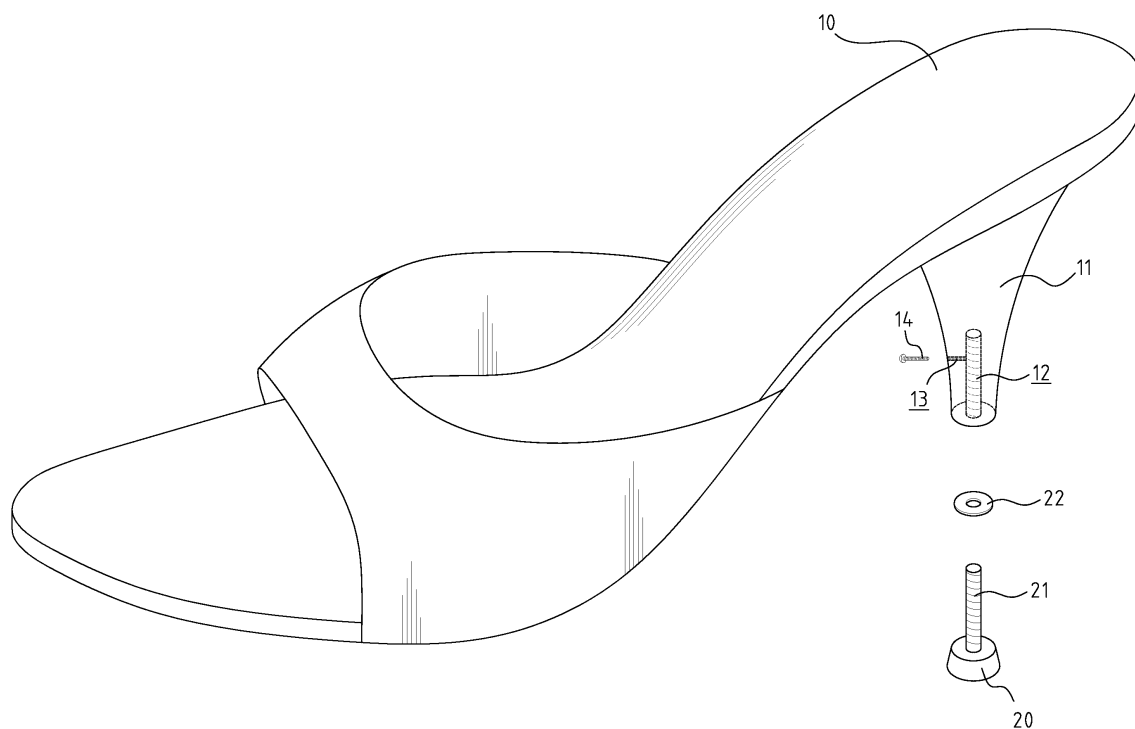
Family 95/432 - FAMPAT - ©Questel

Title

(US20080134542)

Shoe heel structure

Images

**Publication data including kind & date**[US20080134542](#)

A1 2008-06-12

US20080134542

**Abstract**

(US20080134542)

A shoe heel structure includes a heel having a first hole with a thread thereon and a heeltap having a first screw. The first screw is being inserted into and engaged with the first hole. The wearer is able to remove an old heeltap from the heel and then assemble a new heeltap onto the same heel. In a further embodiment, the heeltap can be further guaranteed with a more secure fixation with the heel in the heel structure using a second screw and a second hole.

Inventors

SHIH WEN-TONG

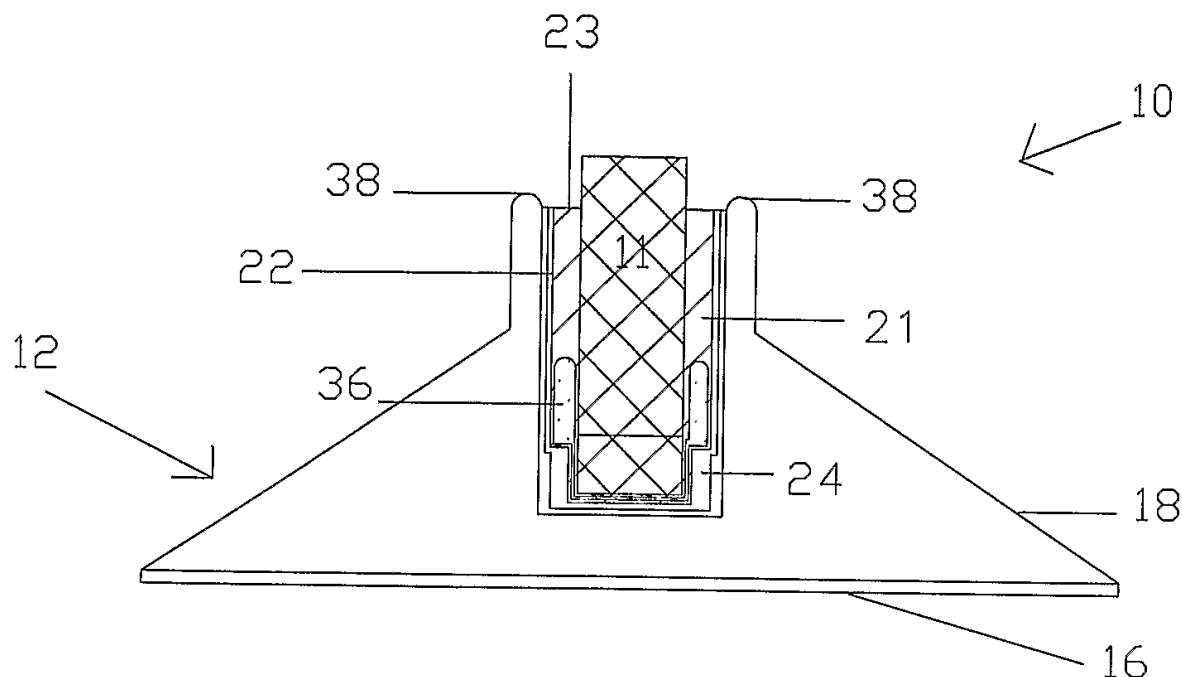
Family 96/432 - FAMPAT - ©Questel

Title

(WO2007124534)

Shoe heel support device

Images



Publication data including kind & date

JP2009535073	A	2009-10-01	JP2009535073
US20090217553	A1	2009-09-03	US20090217553
GB2451051	A	2009-01-14	GB2451051
GB0821461	D0	2008-12-31	GB200821461
WO2007/124534	A1	2007-11-08	WO2007124534
AU2007246160	A1	2007-11-08	AU2007246160
CA2647334	A1	2007-11-08	CA2647334



Abstract

(WO2007/124534)

A shoe heel support device for providing support and stability to a heel of a shoe when worn, is described. The support device includes an attachment means for fastening the device to the heel of a shoe, and a ground contacting surface. The ground contacting surface contacts a surface of ground in use, such that a generally downwards force applied by a wearer of the shoe to a base of the shoe heel is distributed over an area that is greater than that of a surface area of the base of the shoe heel. The device is particularly useful for application in instances where a high heeled shoe is being worn upon surfaces that are soft, by preventing or inhibiting the heel of the shoe from sinking into the ground.

Inventors

JAGGER SAMANTHA MAY ELIZABETH

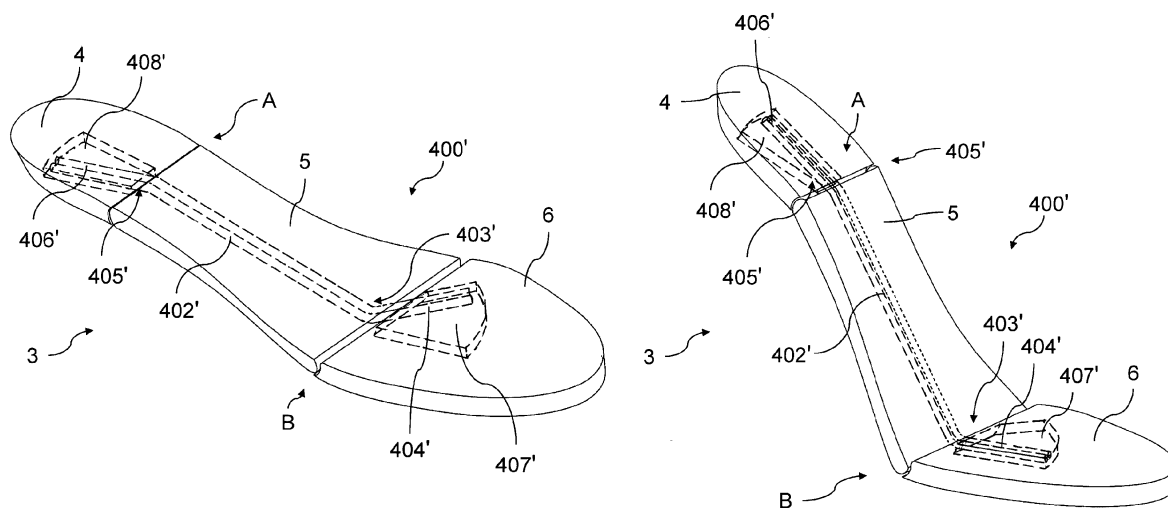
Family 97/432 - FAMPAT - ©Questel

Title

(EP3342302)

Sole part

Images



Publication data including kind & date

US20190116931	A1	2019-04-25	US20190116931
CA2880689	C	2019-01-08	CA2880689
EP3342302	A1	2018-07-04	EP3342302
US9980533	B2	2018-05-29	US9980533
ES2657890	T3	2018-03-07	ES2657890
EP2879541	B1	2017-11-15	EP2879541
AU2013298456	B2	2017-05-25	AU2013298456
CN104703496	B	2016-09-28	CN104703496B
IN1020/CHENP/2015	A	2016-07-01	IN2015CN01020
DE102012213809	B4	2016-01-21	DE102012213809
HK1206215	A1	2016-01-08	HK1206215
US20150201704	A1	2015-07-23	US20150201704
EP2879541	A1	2015-06-10	EP2879541
CN104703496	A	2015-06-10	CN104703496
AU2013298456	A1	2015-02-26	AU2013298456
WO2014/020175	A1	2014-02-06	WO2014020175
DE102012213809	A1	2014-02-06	DE102012213809
CA2880689	A1	2014-02-06	CA2880689



Abstract

(EP3342302)

The invention relates to a sole component for a shoe suitable for use with different heels. The sole component comprises a front, a middle and a rear sole portion and comprises a mechanism for adjusting the sole curvature in a transition region between the front and the middle sole portion. The mechanism comprises a rotatable supporting element which is provided in such a way that it may have a first angular position which causes a first sole curvature in the transition region and a second angular position which causes a second sole curvature in the transition region, wherein the first sole curvature is different from the second sole curvature.

(From US2019116931 A1)

Inventors

HUBER CHRISTIAN

Latest standardized assignees - inventors removed

FLEXHEEL

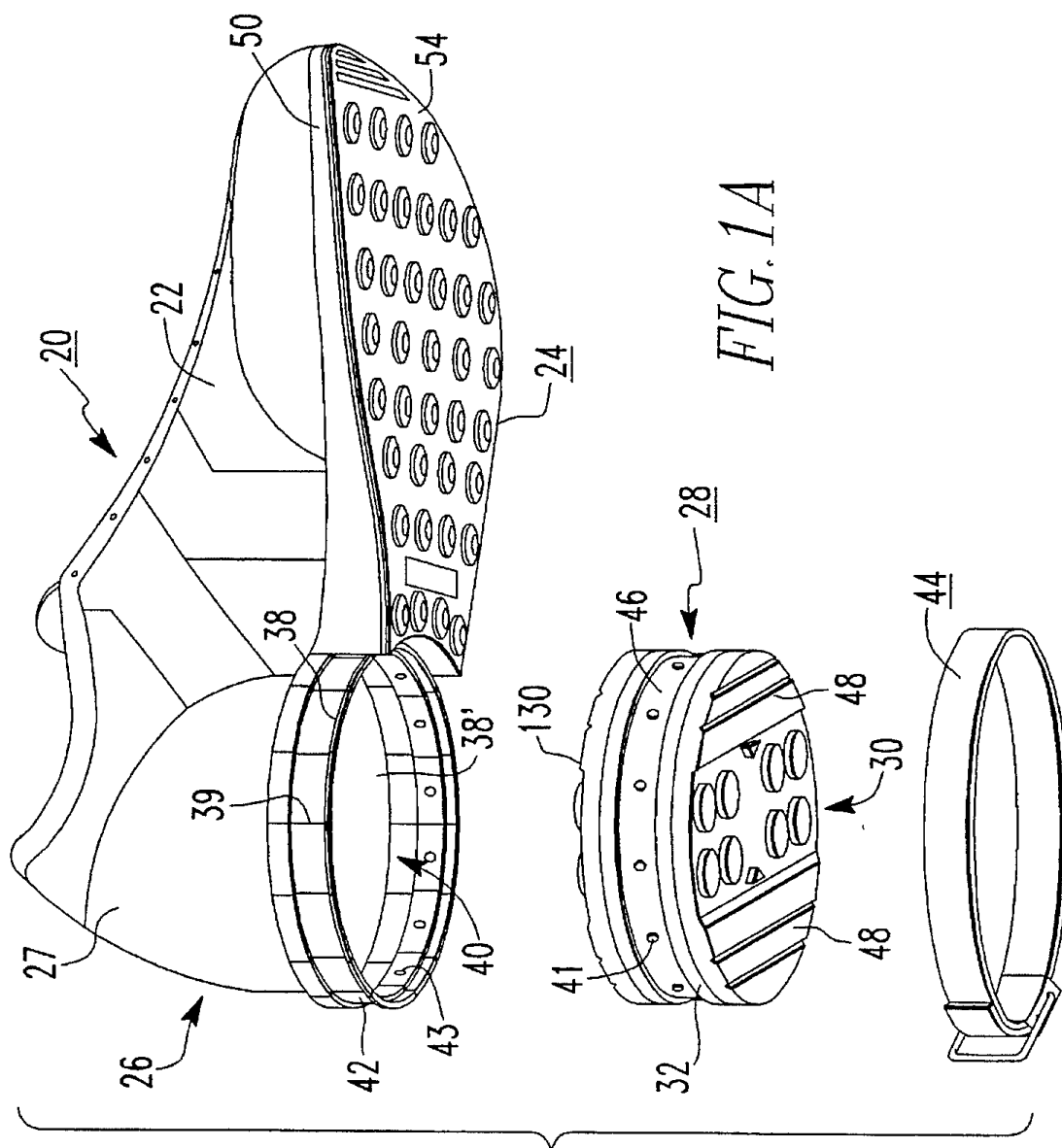
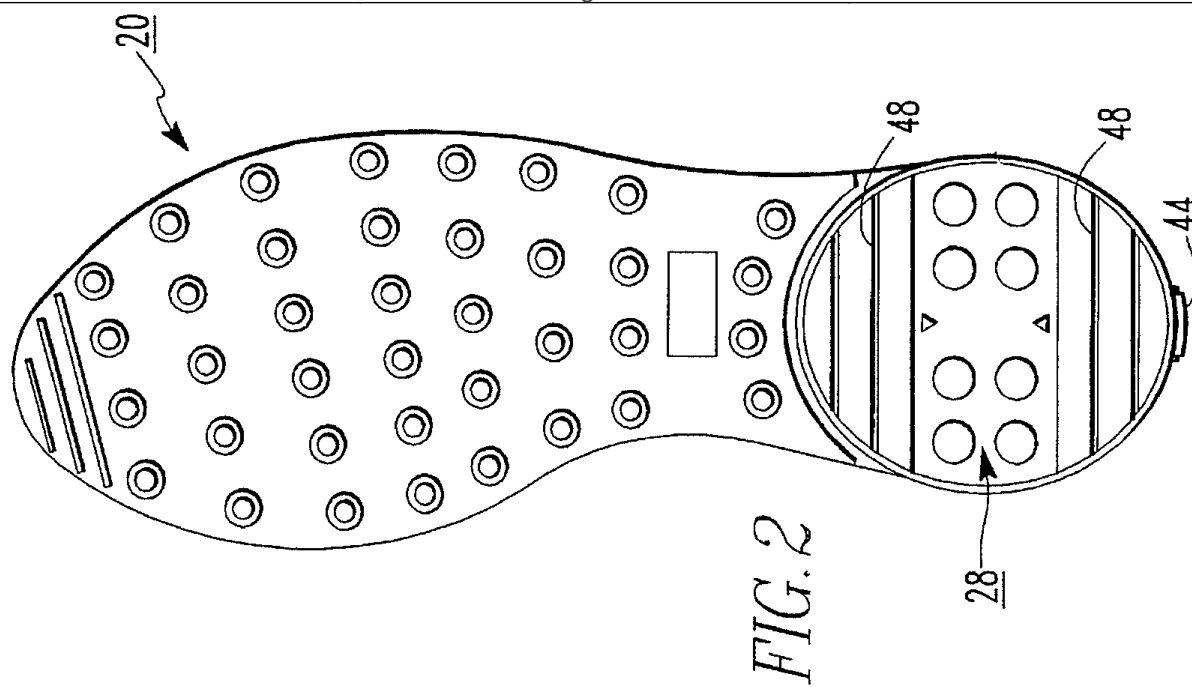
Family 98/432 - FAMPAT - ©Questel

Title

(EP-714246)

Athletic shoe with improved sole

Images



CA2169742	C	2003-10-28	CA2169742				
DE69430630	D1	2002-06-20	DE69430630				
EP0714246	B1	2002-05-15	EP-714246				
AU704993	B2	1999-05-13	AU-704993				
US5615497	A	1997-04-01	US5615497				
JPH09501848	A	1997-02-25	JP09501848				
US5560126	A	1996-10-01	US5560126				
EP0714246	A1	1996-06-05	EP-714246				
AU7630894	A	1995-03-14	AU9476308				
WO95/05099	A1	1995-02-23	WO9505099				
CA2169742	A1	1995-02-23	CA2169742				

Abstract

(EP0714246)

A shoe includes a heel support for receiving a rotatable and replaceable rear sole to provide longer wear. The shoe may also include a graphite insert supported by the heel support between the heel and the rear sole to reduce midsole compression and provide additional spring. The replaceable rear sole and the graphite insert allow the shoe to be adapted to different desired performance characteristics depending upon the intended activity and terrain or playing surface.

Inventors

MESCHAN DAVID F

LE TUAN N

Latest standardized assignees - inventors removed

AKEVA

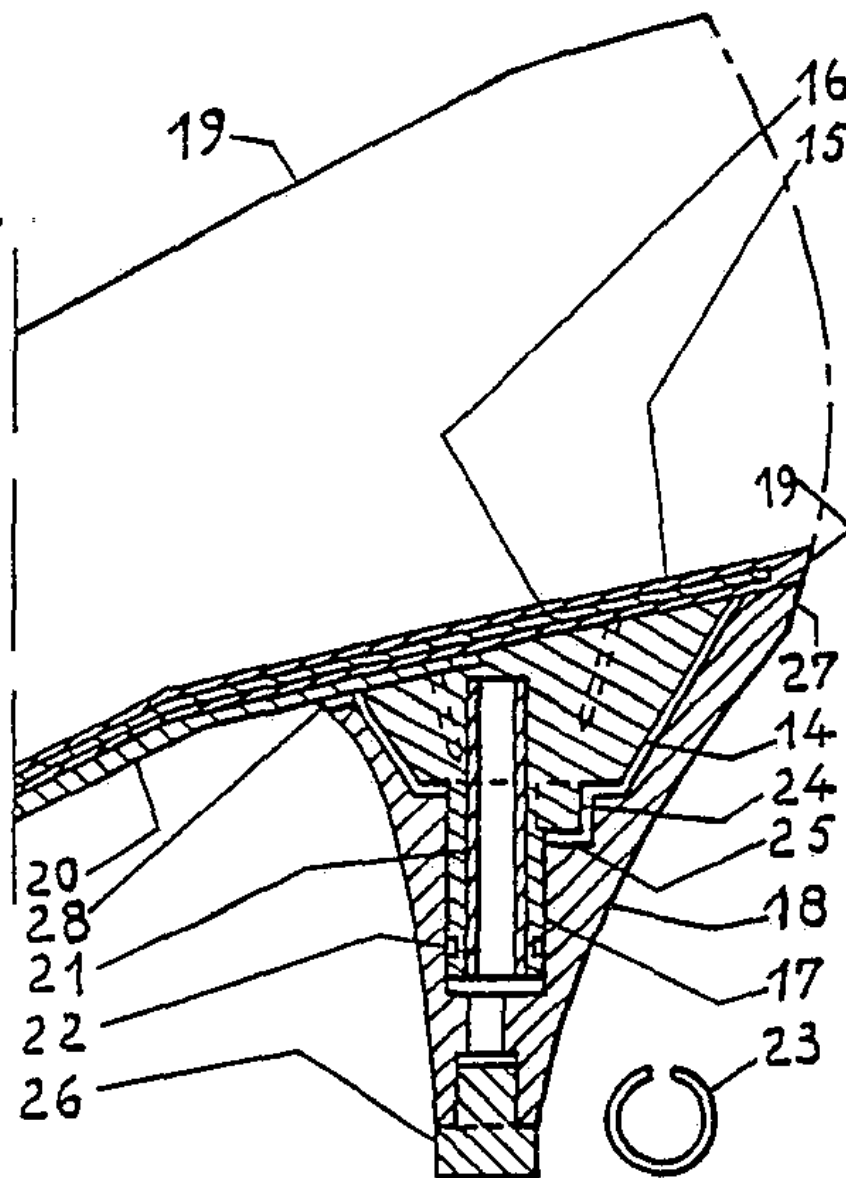
Family 99/432 - FAMPAT - ©Questel

Title

(EP-303627)

Detachable heel with elastic fixing means

Images



Publication data including kind & date

DE3768954	D1	1991-05-02	DE3768954
AT61916	T	1991-04-15	ATE061916
EP0303627	B1	1991-03-27	EP-303627
JPH01502485	A	1989-08-31	JP01502485
ES2006324	A6	1989-04-16	ES2006324
EP0303627	A1	1989-02-22	EP-303627
GR880100086	A	1988-12-16	GR88100086
WO88/06010	A1	1988-08-25	WO8806010



Abstract

(EP0303627)

Assembly by which a detachable heel (18) is set on its support (14, 17) in such a way as to involve the centralization and concentration of an elastic fixing, including a single fine unit (17) attached to a single elastic unit (23), concentrating said attachment on a single anchoring point and allowing said fitting and detachment to be performed repeatedly and easily.

Inventors

VIVIER, HARRY

Latest standardized assignees - inventors removed

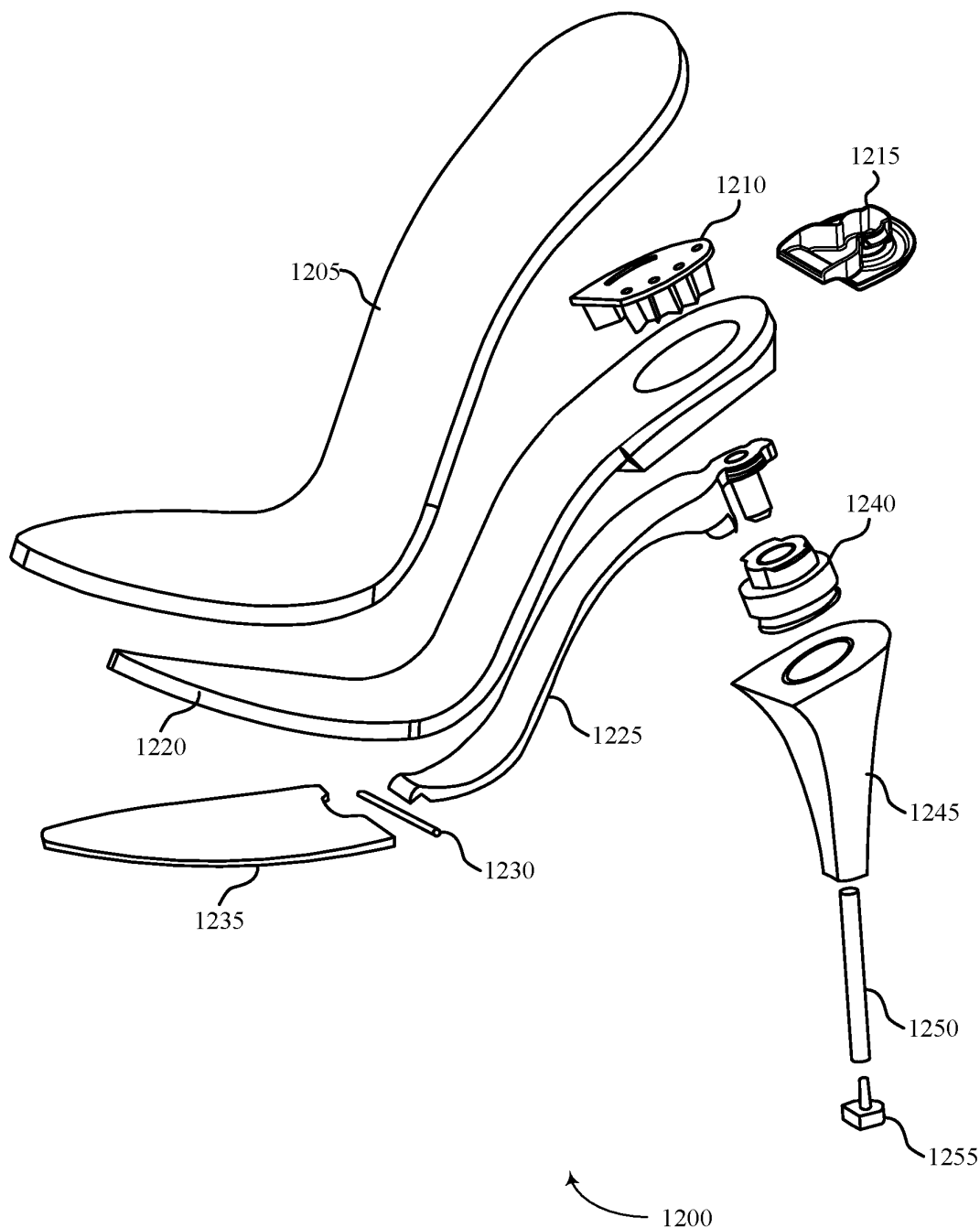
VIVIER HARRY

Family 100/432 - FAMPAT - ©Questel

Title

(EP3427602)

Fully convertible high heel-to-flat shoe

Images**Publication data including kind & date**

CN109247658	A	2019-01-22	CN109247658
US20190014860	A1	2019-01-17	US20190014860
EP3427602	A1	2019-01-16	EP3427602

**Abstract**

(EP3427602)

The present disclosure describes a shoe that may be transformed from a high heel shoe to a low heel shoe. The shoe may include three parts: a removable stelo, a removable high heel attachment, and the corresponding attachment systems

integrated into the base shoe sole. The removable high heel attachment may be a standard heel of any design, width and height that has a locking system comprising a threaded post located at the heel base. When the stelo and heel attachment are attached, the shoe may be a high heel shoe. When they are removed, the shoe may be a low heel shoe, or flat shoe.

Inventors

PAVONE HALEY

UNBEHAND TYLER ELISE

VAN BRONKHORST SEIJI ALEXANDER

PETER DANIEL WILLIAM

THOMPSON MARK CHRISTOPHER

PERRY DAVID SHELDON

HAMEL CARINA MARY

RINGER ROBERT HART

Latest standardized assignees - inventors removed

PASHION FOOTWEAR

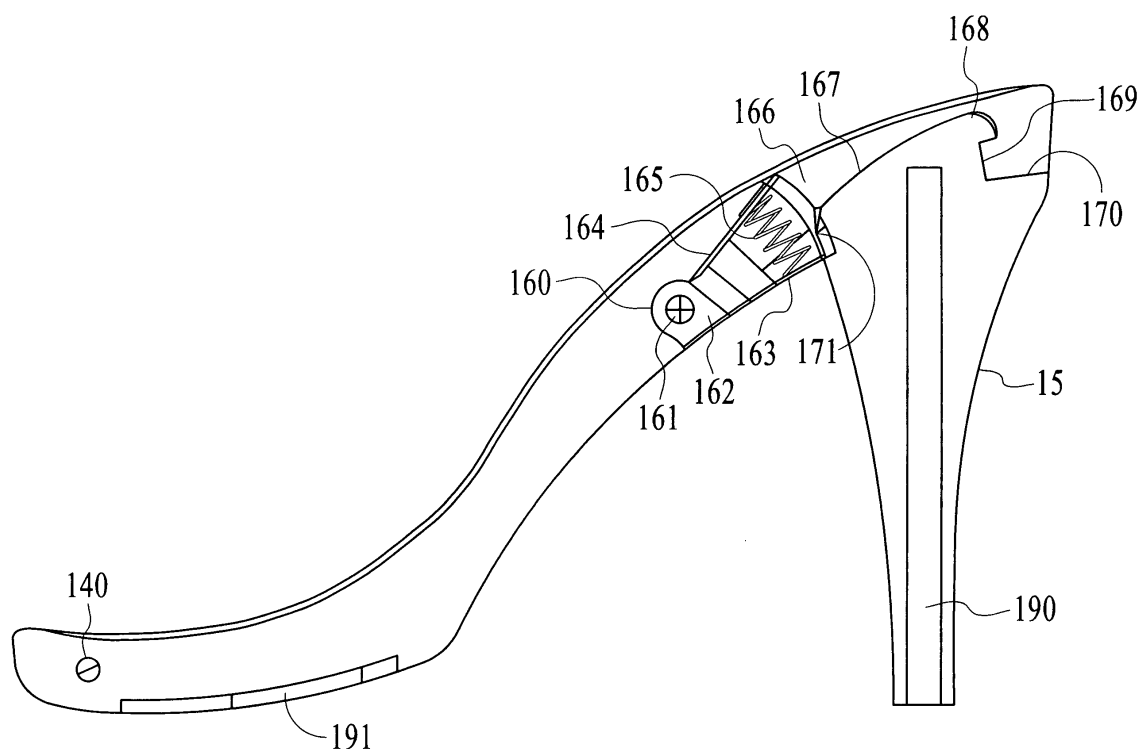
Family 101/432 - FAMPAT - ©Questel

Title

(WO2013151845)

Collapsible shoe and replaceable straps and methods for making and using same

Images



Publication data including kind & date

IN2285KON2014	A	2015-05-01	IN2014KN02285
JP2015512324	A	2015-04-27	JP2015512324
US8938891	B2	2015-01-27	US8938891
KR20150005581	A	2015-01-14	KR20150005581
US8832972	B2	2014-09-16	US8832972
WO2013/151845	A1	2013-10-10	WO2013151845
US20120186105	A1	2012-07-26	US20120186105
US20120137543	A1	2012-06-07	US20120137543



[US7975405](#)

B1 2011-07-12 US7975405

[US7578075](#)

B1 2009-08-25 US7578075

**Abstract**

(WO2013/151845)

A modular shoe having a removable upper is described. The upper may be adapted to be attached to an associated base. The upper may be secure to the base using a fastening element. Such a fastening element may be inserted through the base into a receptacle in the upper before being locked in place to secure the upper to the base. Similarly, the upper may be removed from the base by unlocking the fastening element from the receptacle. Such a modular shoe allows a wearer to easily change uppers (and/or bases) to create various combinations as desired.

Inventors

KEMP QUINTANA

HO TIN RAY

Latest standardized assignees - inventors removed

CLIC LIFESTYLE

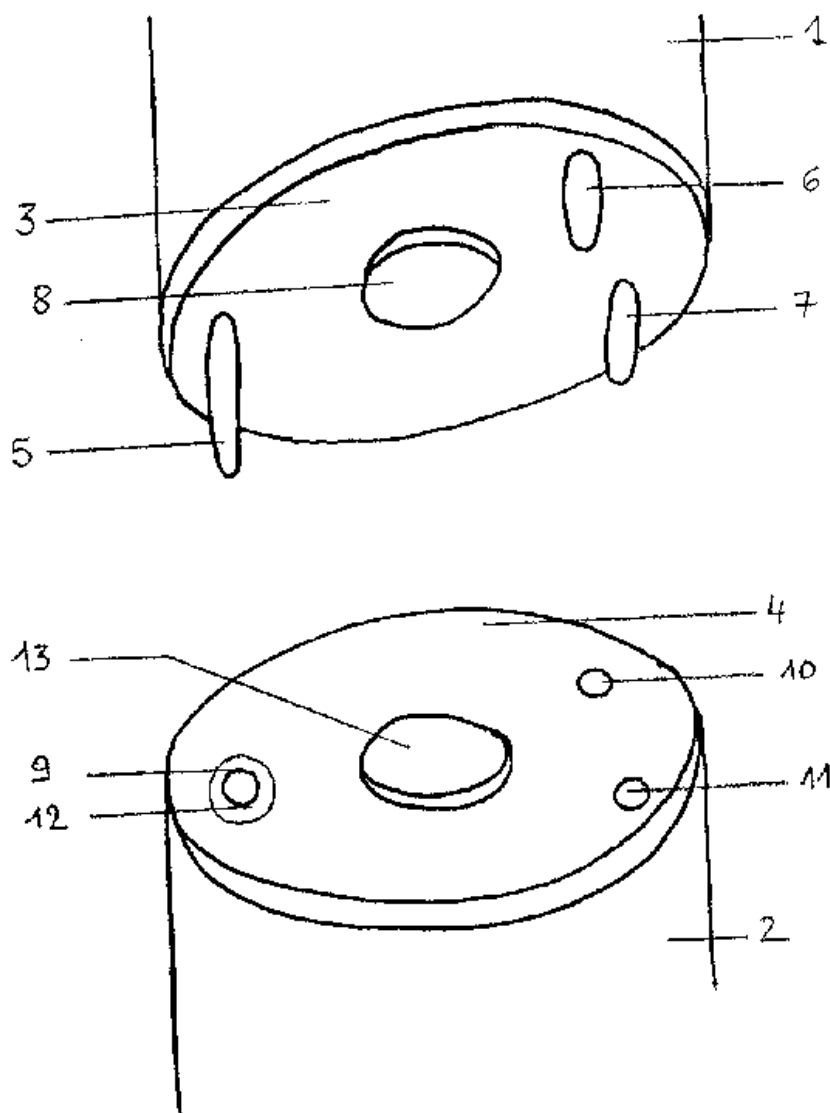
Family 102/432 - FAMPAT - ©Questel

Title

(EP1603419)

Rapid assembly device particularly applicable to shoes with fixed heels

Images



Publication data including kind & date

FR2852365	B1	2006-12-15	FR2852365
JP2006523290	A	2006-10-12	JP2006523290
EP1603419	A2	2005-12-14	EP1603419
WO2004/082415	A3	2004-10-28	WO200482415
WO2004/082415	A2	2004-09-30	WO200482415
FR2852365	A1	2004-09-17	FR2852365



Abstract

(EP1603419)

The invention relates to an assembly device for the rapid assembly of two pieces without the need for a particular tool. One application is the production of shoes with fixed heels. One of the pieces for assembly is provided with pegs cooperating with recesses provided on the other piece. One of the pegs has longer and wider dimensions than the other pegs, such as to assist the positioning of the pieces on assembly. A locking device permits holding the assembly in position.

Inventors

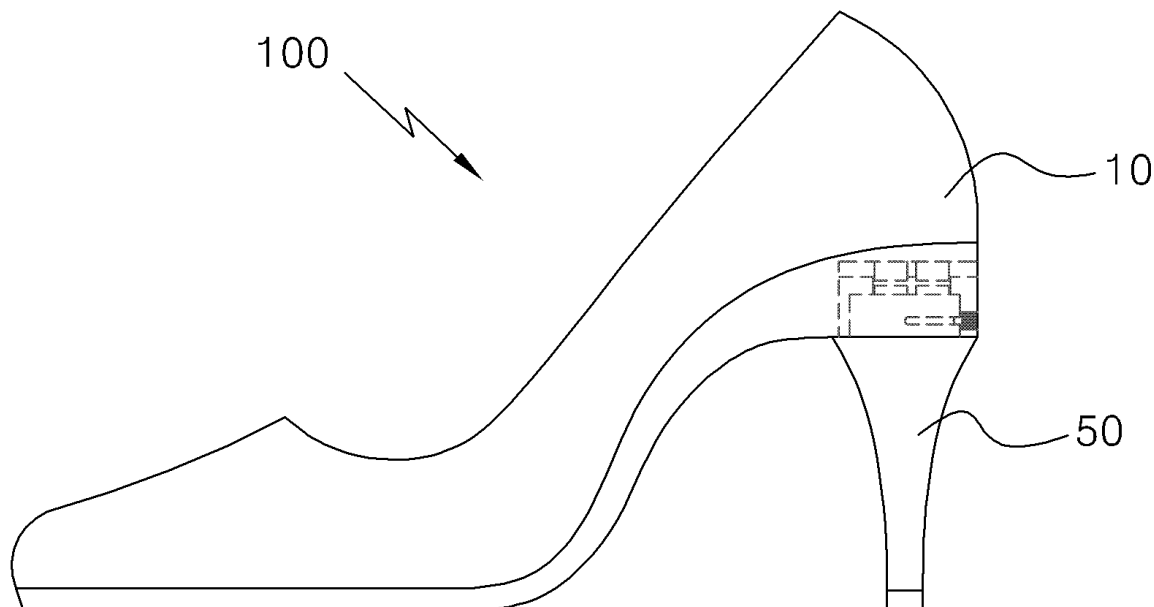
CIUCA LESPOUR DOMINIQUE
LESPOUR CHANTAL

Family 103/432 - FAMPAT - ©Questel

Title

(KR101289713)

High heeled shoes

Images**Publication data including kind & date**[KR101289713](#)

B1

2013-07-26

KR101289713

[KR20130050697](#)

A

2013-05-16

KR20130050697

**Abstract**

(KR20130050697)

PURPOSE: High heel shoes with rotatable and separable heels are provided to change the shoes into low heel shoes and to quickly separate the heels when the heels are stuck in an accident.

CONSTITUTION: High heel shoes comprise: a plurality of fixing magnets(21,22,23); a main groove(11); an arm coupling unit with a ball flange(30) for coupling a heel; moving magnets(61,62) for attaching the fixing magnets; a protrusion(52) which is inserted to the main groove; and a male coupling part with a rotation groove(51) for inserting the ball flange. The ball flange moves to the inside of the male coupling part when the protrusion part is inserted and is placed at one side of the rotation groove.

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[Reference numerals] (AA) Bottom side; (BB) Plane side

Inventors

LEE, SUNG HEE

PARK HEEBAEK

LEE, HO HYUN

Song Min-min

Latest standardized assignees - inventors removed

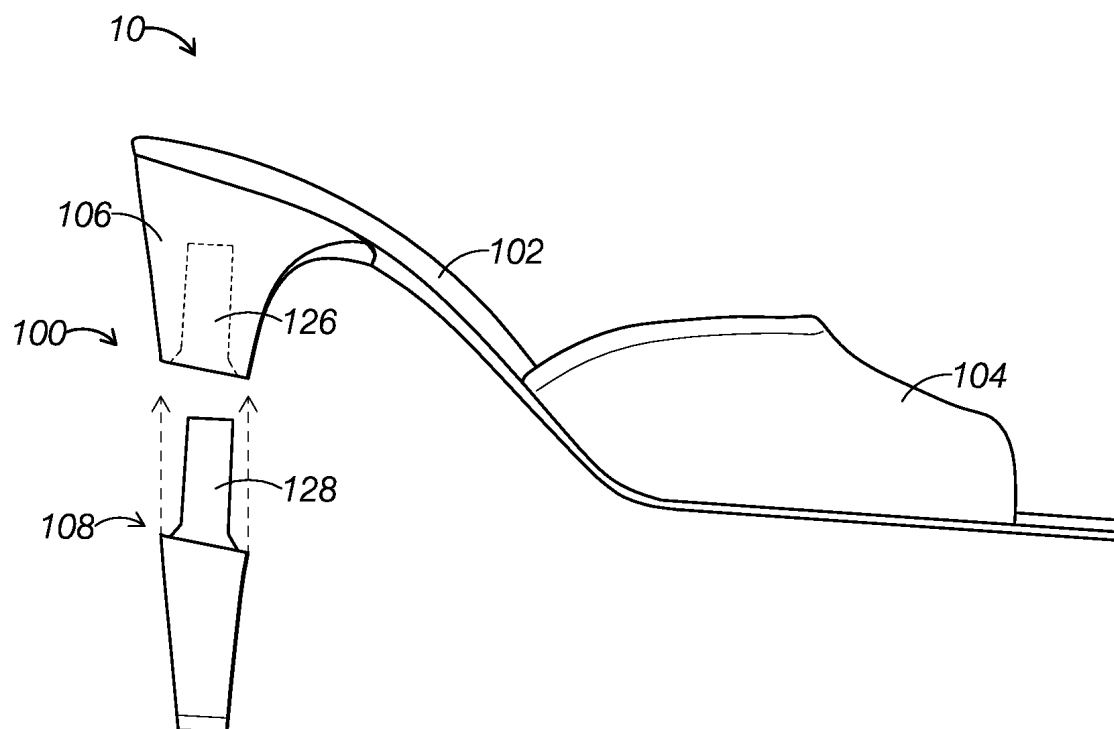
JINSUNG ENGINEERING

Family 104/432 - FAMPAT - ©Questel

Title

(EP2474245)

Shoe with interchangeable heel

Images**Publication data including kind & date**[US20120174435](#)

A1 2012-07-12

US20120174435

[EP2474245](#)

A1 2012-07-11

EP2474245

**Abstract**

(EP2474245)

Disclose embodiments include shoes with interchangeable heels permitting a plurality of heel heights and styles, addressing the need for aesthetic appeal, ease of use, comfort, simplicity of design, and sturdiness. More particularly, disclose embodiments include a modifiable shoe heel consisting of a fixed heel part and an interchangeable heel part removably attachable by a system of magnets.

Inventors

RUANO CERDAN JOSE VICENTE

MONTEAGUDO GARRO MIGUEL

RUANO CERDAN PATRICIA

MONTEAGUDO GARRO JUAN ANGEL

Latest standardized assignees - inventors removed

TAC REVOLUTION

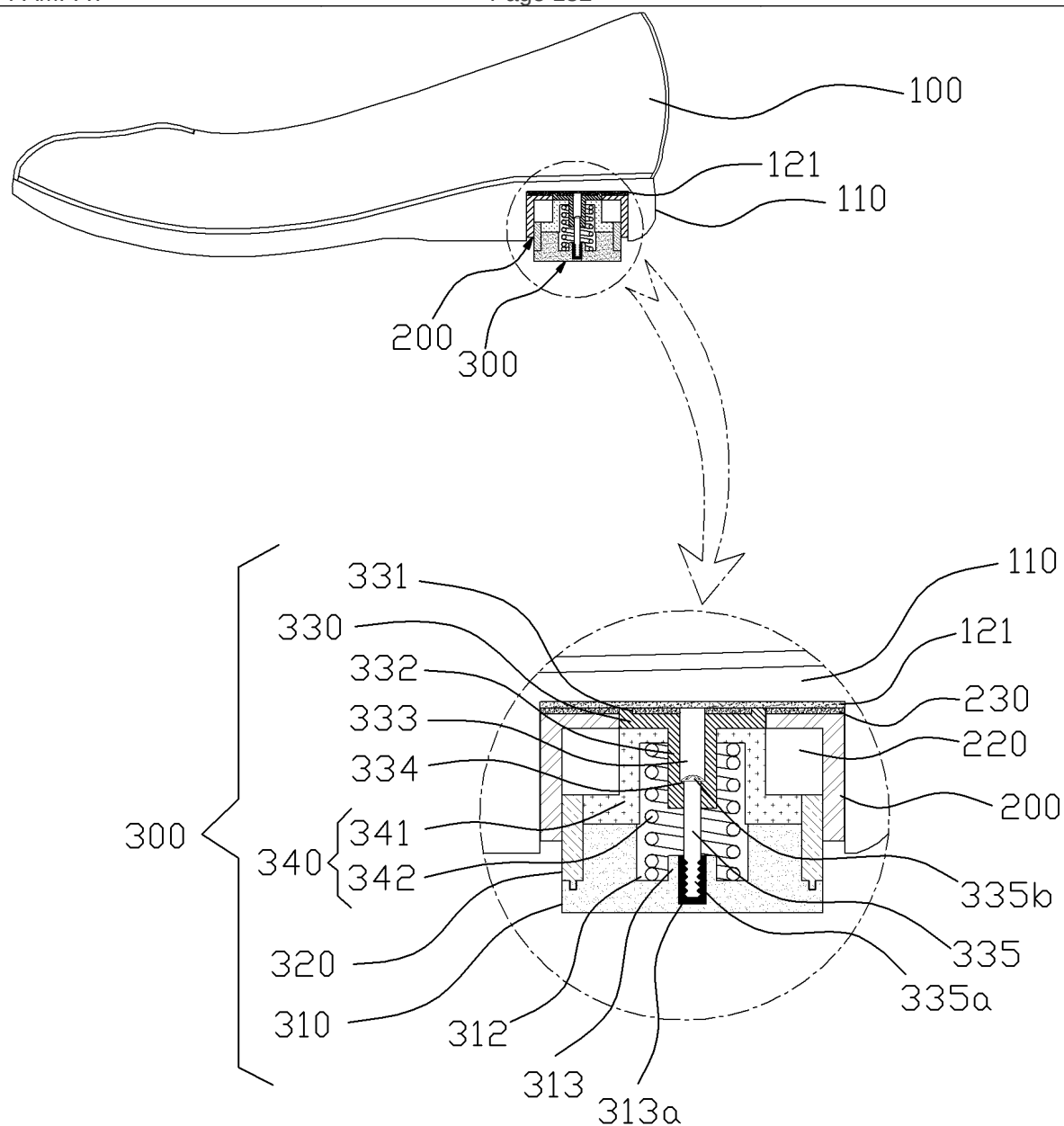
Family 105/432 - FAMPAT - ©Questel

Title

(KR101019153)

Shoes for absorbing shock

Images

**Publication data including kind & date**

KR101019153

B1 2011-03-03

KR101019153

**Abstract**

(KR101019153)

PURPOSE: Shoes for absorbing shock are provided to damage to the shoes while being equipped with a buffering unit and to control shock-absorbing intensity. **CONSTITUTION:** Shoes for absorbing shock comprise: a shoes body(100) which forms a receiving groove of a recess type in the rear bottom surface of an outsole(110); a supporting frame(200) which is fixedly inserted into the receiving groove and is fixed; and a shock-absorbing heel(300) which is equipped with a heel outsole(310) in the bottom thereof and an upper fixture(330) in the top thereof and is inserted into an inner cavity(220) of the supporting frame and in which buffering material(340) is inserted between the heel outsole and upper fixture.

Inventors

GO, JONG-TAEK

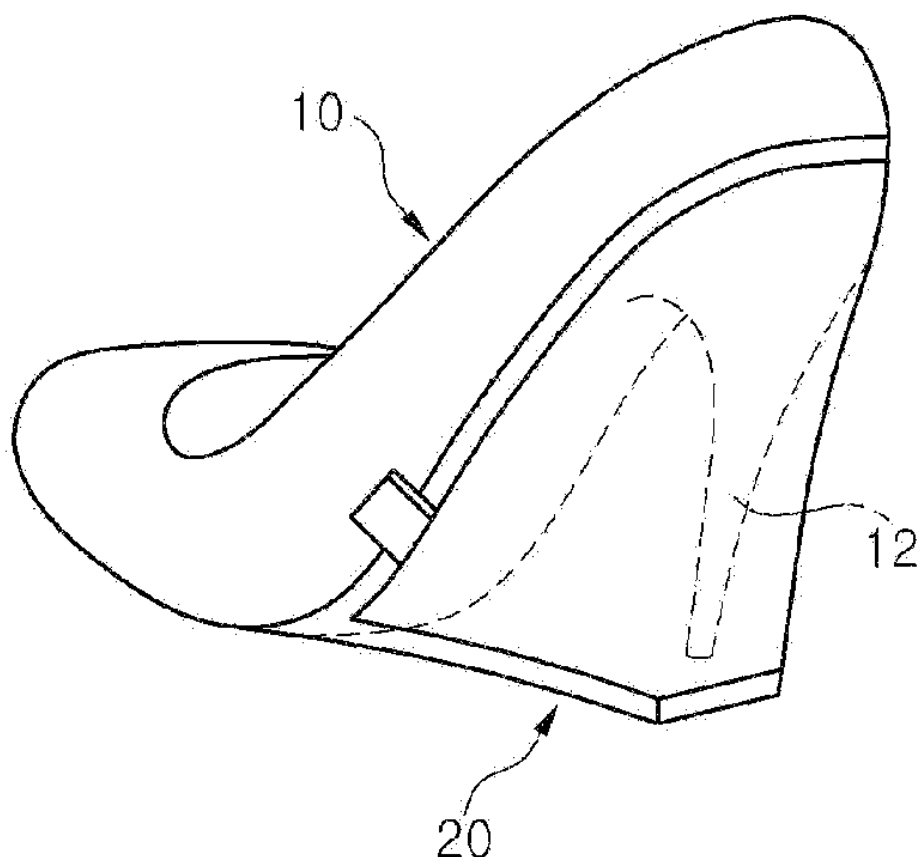
Family 106/432 - FAMPAT - ©Questel

Title

(EP2862466)

Removable wedge heel and method for setting same

Images



Publication data including kind & date

EP2862466	A4	2016-02-17	EP2862466
JP5782567	B2	2015-07-24	JP5782567
EP2862466	A1	2015-04-22	EP2862466
US20150101210	A1	2015-04-16	US20150101210
JP2014518750	A	2014-08-07	JP2014518750
WO2013/187543	A1	2013-12-19	WO2013187543



Abstract

(EP2862466)

Disclosed herein is a removable wedge heel for high heel shoes, the removable wedge heel including: an upper slanted surface corresponding to a slanted bottom part of the high heel shoes; a bottom surface intersecting with the upper slanted surface so as to contact a ground; and a heel insertion hole formed toward the bottom surface from an upper portion of the upper bottom surface and closely inserted into a heel of the high heel shoes.

Inventors

JANG MYOUNG HO

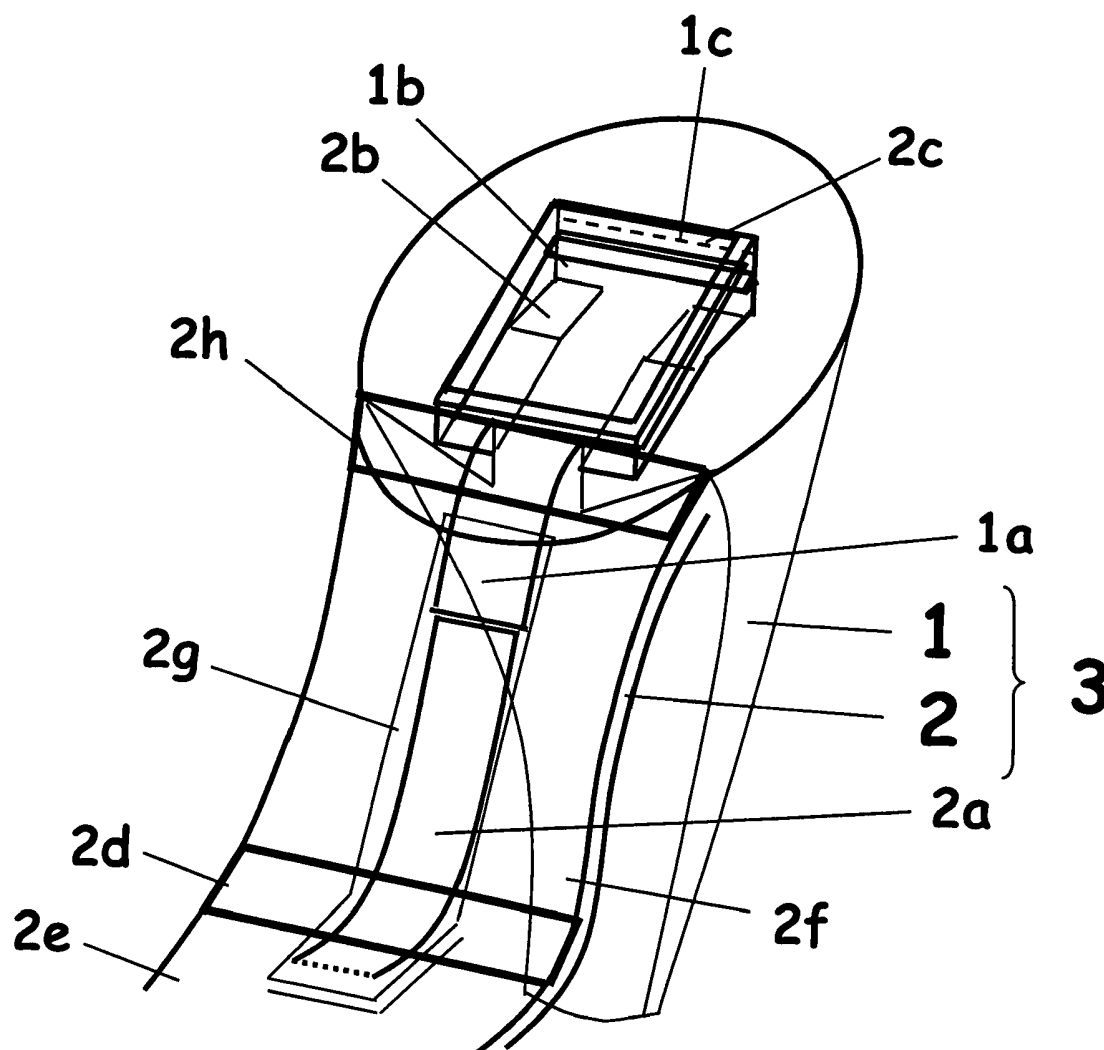
Family 107/432 - FAMPAT - ©Questel

Title

(EP2074900)

Exchangeable heel, shoe sole component and shoe

Images



FIGUR 4

Publication data including kind & date

ES2407148	T3	2013-06-11	ES2407148
EP2074900	B8	2013-04-10	EP2074900
EP2074900	B1	2013-02-20	EP2074900
EP2074900	A1	2009-07-01	EP2074900
AT505748	A4	2009-04-15	AT-505748
AT505748	B1	2009-04-15	AT-505748

**Abstract**

(EP2074900)

The heel (1) has an integrated pressurization element (1a) e.g. compression spring, laid at and/or engaged to a sole part (2) under exertion of pressure in a toe direction on a section of the sole part. The sole part consists of a heel fixing element (2c), where a mechanical stress condition is developed by the pressure exertion for causing shape-change on the section of the sole part. The pressurization element is made of metal and/or plastic, and the heel fixing element and a sole fixing element (1c) are snatched into each other.

Inventors

STEINER MICHAEL MAG

Latest standardized assignees - inventors removed

STEINER MICHAEL MAG

Family 108/432 - FAMPAT - ©Questel

Title

(EP2814352)

Convertible shoe

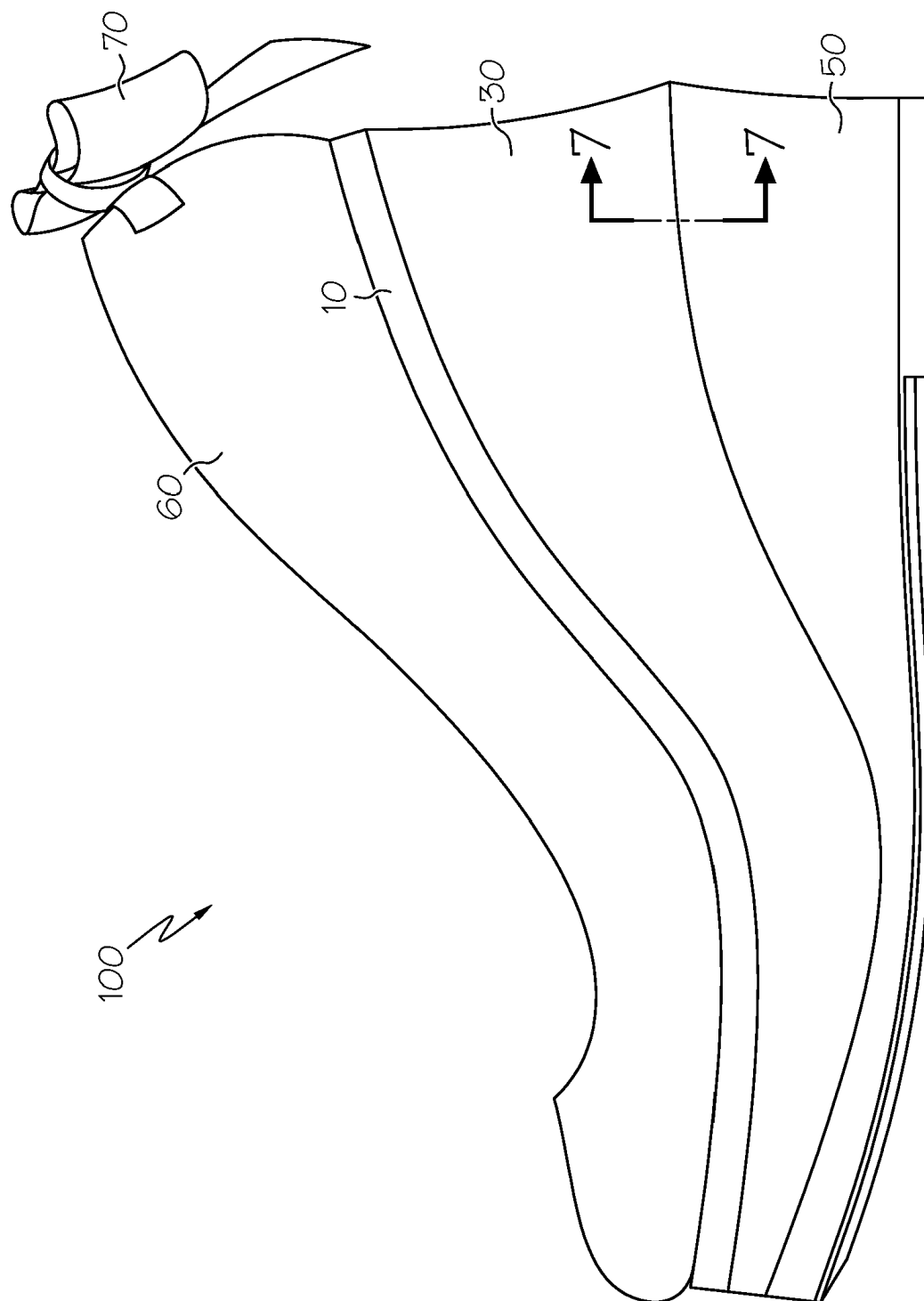
Images

FIG. 1

Publication data including kind & date

ES2629018	T3	2017-08-07	ES2629018
DK2814352	T3	2017-06-06	DK2814352T
EP2814352	B1	2017-05-17	EP2814352
JP6106898	B2	2017-04-05	JP6106898
HK1203131	A1	2015-10-23	HK1203131
JP2015519934	A	2015-07-16	JP2015519934
EP2814352	A4	2015-04-01	EP2814352



[EP2814352](#)

A1 2014-12-24 EP2814352

[WO2013/169284](#)

A1 2013-11-14 WO2013169284

[CN103338671](#)

A 2013-10-02 CN103338671

**Abstract**

(EP2814352)

The convertible shoe consists of: a top portion having a stylized upper a footbed and an underside with bottom side attachment means; an insert with top side attachment means and a bottom side attachment; and a bottom portion having a top side attachment and a tread on the bottom. The top side attachment of the bottom portion and insert are identical, and the bottom side attachment of the top portion and insert are identical. The bottom side attachment is sized and configured to correspond to, and attach to the top side attachment, such that the top portion can attach directly to the bottom portion to create a low-heeled shoe, or attach to the insert which is attached to the bottom portion to create a high-heeled shoe.

Inventors

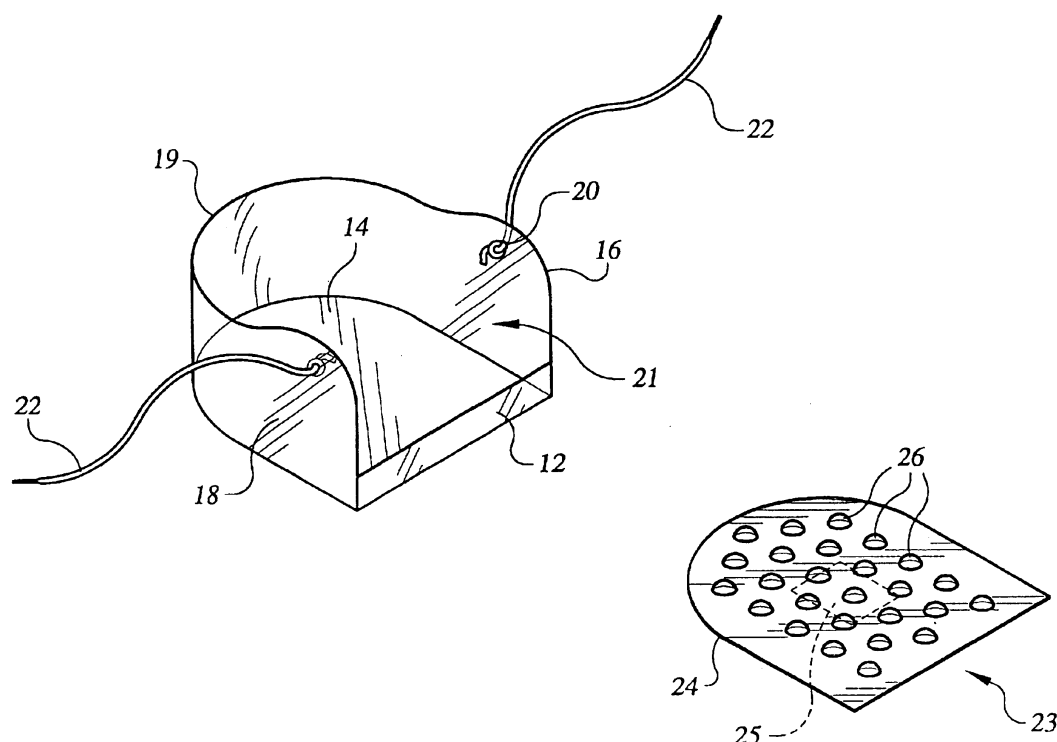
MULHOLLAND SARAH MELISSA

Family 109/432 - FAMPAT - ©Questel

Title

(US6775927)

Removable heel cushion

Images**Publication data including kind & date**[US6775927](#)

B2 2004-08-17 US6775927

[US20040049943](#)

A1 2004-03-18 US20040049943

**Abstract**

(US20040049943)

A removable heel cushion is described. The cushion is comprised of a heel pocket and a resilient shock absorber configured for placement within the heel pocket. The assembled removable heel cushion is easily connected to a shoe by placing the heel pocket over the heel section of a shoe, whether the shoe is flat soled or has a heel, and then securing attachments, such as shoe laces or VELCRO(TM) tipped straps, over the upper section of the shoe. Resilient shock

absorbers can vary from coiled springs to vacuum formed hemispheres customized to user preference. Shock absorbers can be frangibly attached to the heel pocket for replacement or additions according to user preferences.

Inventors

GLICKSMAN MILTON

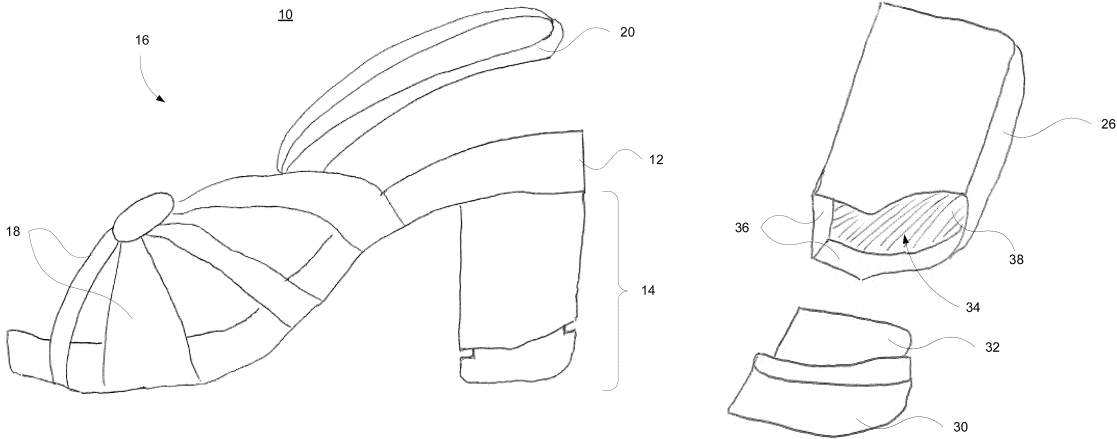
Family 110/432 - FAMPAT - ©Questel

Title

(EP2627207)

Suspension heel

Images



Publication data including kind & date

EP2627207	B1	2018-11-21	EP2627207				
EP2627207	A4	2017-06-14	EP2627207				
JP5889314	B2	2016-02-26	JP5889314				
CA2814514	C	2015-12-22	CA2814514				
CN103379838	B	2015-07-15	CN103379838B				
CN103379838	A	2013-10-30	CN103379838				
JP2013539712	A	2013-10-28	JP2013539712				
US8539697	B2	2013-09-24	US8539697				
EP2627207	A2	2013-08-21	EP2627207				
WO2012/051177	A3	2012-07-12	WO201251177				
WO2012/051177	A2	2012-04-19	WO201251177				
CA2814514	A1	2012-04-19	CA2814514				
US20120085002	A1	2012-04-12	US20120085002				

Abstract

(EP2627207)

A suspension heel (14) is provided for use with footwear (10), such as high heeled shoes, to provide cushioning to the wearer. The suspension heel (14) includes a heel shaft (26) connected to the shoe sole (12) and a compliant heel plug (28) attached to the heel shaft (26). The shaft (26) includes a cavity or other receptacle (34) for receiving the compliant heel plug (28). The suspension heel (14) provides cushioning as well as stability for the wearer of the footwear, while maintaining aesthetic style. A relief detail (48) formed by the compliant heel plug (28) and the shaft (26) provides compliance by compressing when a force is applied. For instance, as a person walks in the shoe, ground contact applies a force to the suspension heel (14). The relief detail (48) deforms or compresses in response to the force, attenuating it and providing cushioning to the wearer.

Inventors

HEALY JOHN

DILLON PETER

ADAM CHRISTOPHER

Latest standardized assignees - inventors removed

TBL LICENSING

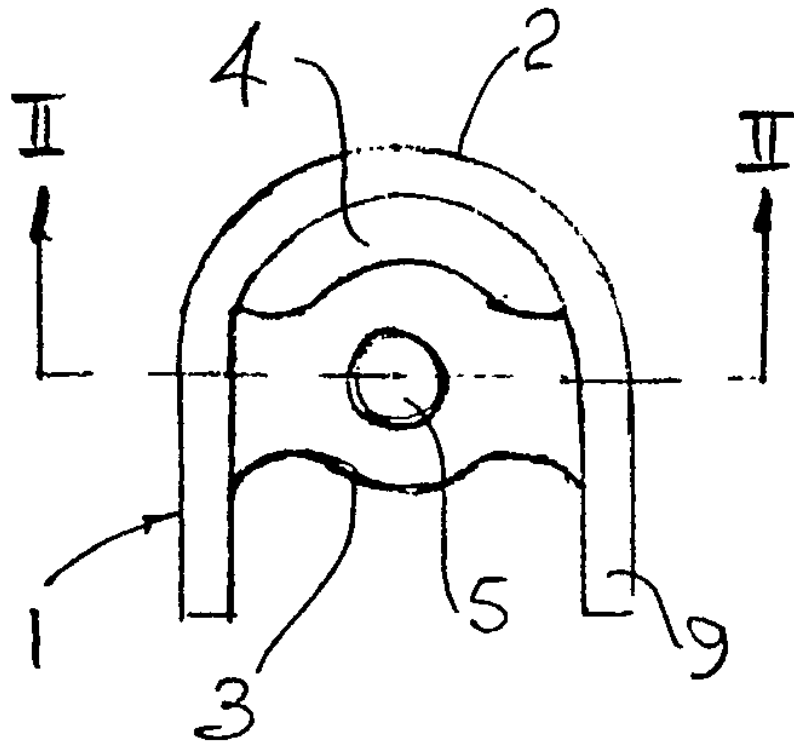
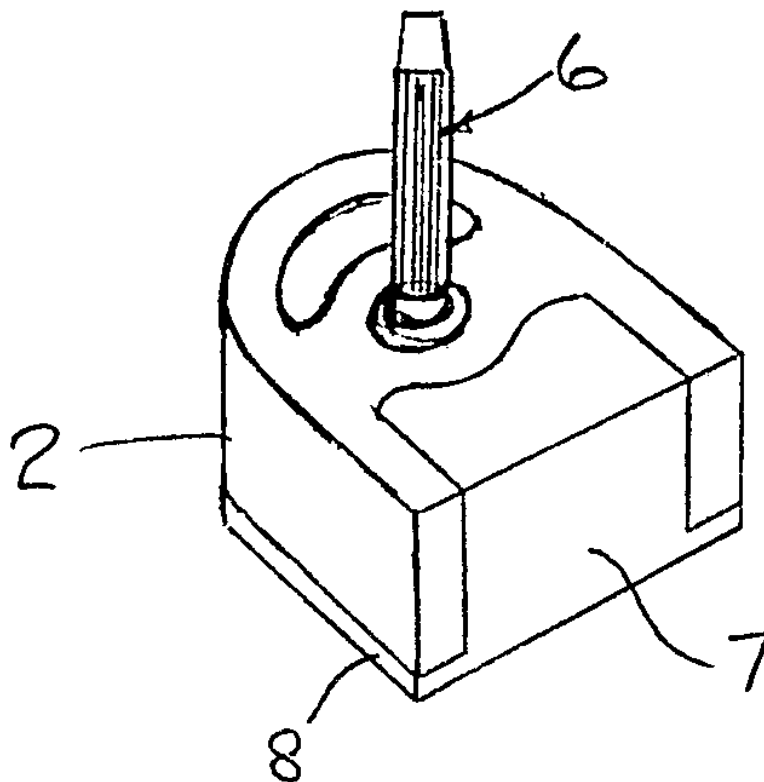
Family 111/432 - FAMPAT - ©Questel

Title

(GB2161363)

Top piece for ladies' heels

Images

FIG. 1FIG. 3**Publication data including kind & date**

GB2161363	B	1987-10-28	GB2161363
GB2161363	A	1986-01-15	GB2161363
GB8417678	D0	1984-08-15	GB8417678

**Abstract**

(GB8417678)

A top piece for a shoe heel comprises a diecast shell (1), preferably formed of a zinc alloy. The shell is in the form of a U-

shaped rim (2) with an upper plate (3) integral therewith. A hardened pin (6) extends through a hole (5) in the plate, for attaching the completed top piece to a shoe heel. A body (7) of a hardwearing plastics material, such as polyurethane, is injection moulded into the shell so that the body extends through the open bottom of the shell so that the body extends through the open bottom of the shell and covers the lower edge (9) of the rim. The plate (3) has a slot (4) therein, so that nails or other fixing members can pass therethrough into the heel. <IMAGE>

Inventors

PRESCOTT ARTHUR

Latest standardized assignees - inventors removed

GARNAR BOOTH

Family 112/432 - FAMPAT - ©Questel

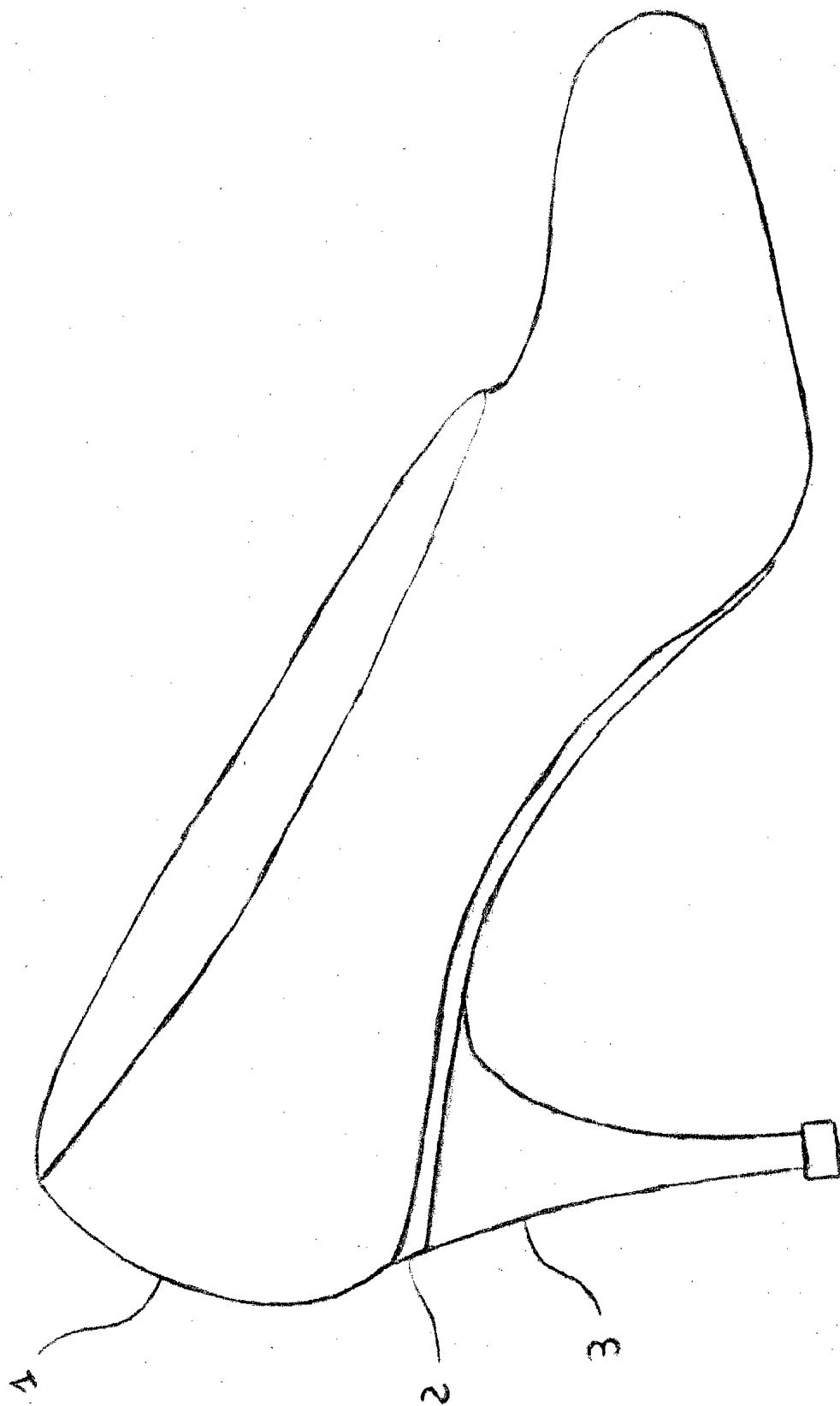
Title

(EP2734074)

Multiple height shoe

Images

Fig. 1

**Publication data including kind & date**

EP2734074	B1	2018-12-12	EP2734074
CN204363098	U	2015-06-03	CN204363098U
FR2978017	B1	2014-09-12	FR2978017
EP2734074	A1	2014-05-28	EP2734074
FR2978017	A1	2013-01-25	FR2978017
WO2013/011213	A1	2013-01-24	WO201311213

**Abstract**

(EP2734074)

DK2434918	T3	2019-07-08	DK2434918T				
EP2434918	B1	2019-03-27	EP2434918				
US20120260534	A1	2012-10-18	US20120260534				
EP2434918	A1	2012-04-04	EP2434918				
FR2945917	B1	2011-07-15	FR2945917				
FR2945917	A1	2010-12-03	FR2945917				
WO2010/136607	A1	2010-12-02	WO2010136607				

Abstract

(EP2434918)

The present invention relates to a sports shoe (10) comprising an instep (11) and a rigid outer sole (1), said sole (1) having a front portion (2) comprising a first plurality of studs (5), a central portion (8), and a rear portion (3) comprising a second plurality of studs (6). Said rear portion (3) comprises a thickened portion (4) with a flat outer surface (12) on which said second plurality of studs (6) is located, said thickened portion (4) raising said rear portion (3) relative to said front portion (2); said central portion (8, 57) comprises an inwardly curved outer profile (14).

Inventors

GUER JEAN LUC

Latest standardized assignees - inventors removed

BRITEL MOUNA

ANIGO JOSE DANIEL

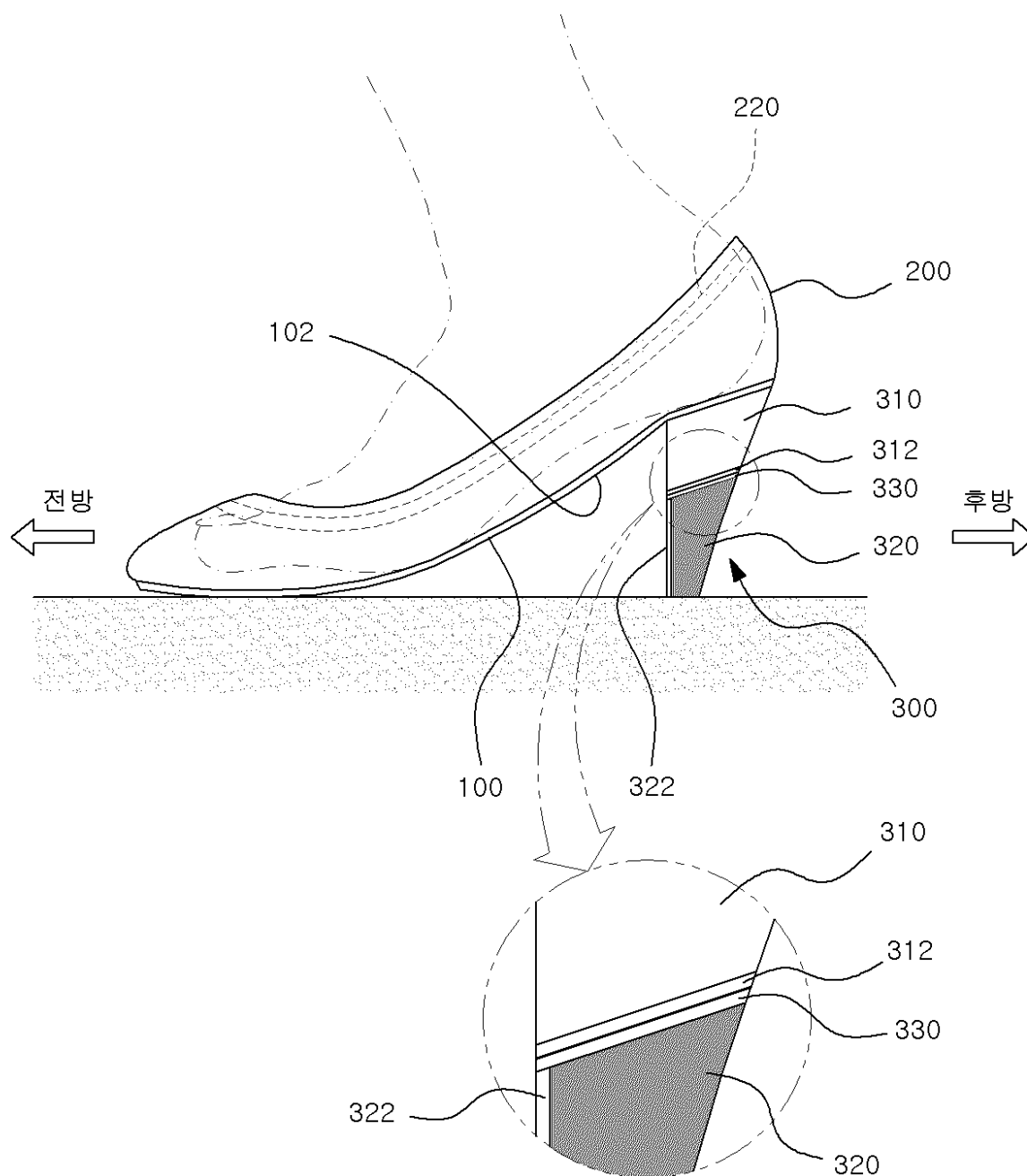
Family 114/432 - FAMPAT - ©Questel

Title

(KR101772799)

Article of footwear capable of adjusting heel height

Images



Publication data including kind & date

[KR101772799](#)

B1 2017-08-30 KR101772799

[KR20170092774](#)

A 2017-08-14 KR20170092774



Abstract

(KR20170092774)

The present invention relates to shoes capable of adjusting the heel height. The shoes capable of adjusting the heel height comprise: a sole part for supporting the sole of a user; an upper part provided on the upper part of the sole part; a fixed heel movably provided at a lower portion of the sole part; and a variable heel part movably provided at a lower portion of the sole part so as to have a different heel height and having a movable heel being in contact with the ground, thereby selectively adjusting the heel height according to the usage environment and ensuring comfortable walking.

Inventors

KIM, SANG HWAN

Latest standardized assignees - inventors removed

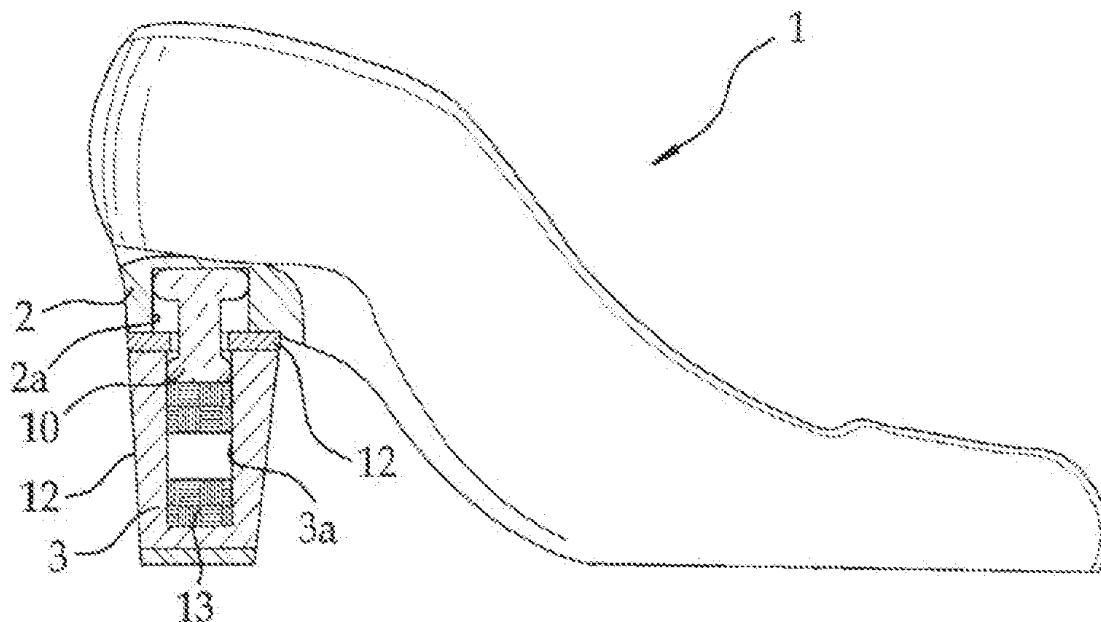
HOSEO UNIVERSITY ACADEMIC COOPERATION FOUNDATION

Family 115/432 - FAMPAT - ©Questel

Title

(WO2010147352)

High heel shoe having foldable heel

Images**Publication data including kind & date**

US20130160332	A1	2013-06-27	US20130160332
KR101059463	B1	2011-08-26	KR101059463
WO2010/147352	A3	2011-03-31	WO2010147352
KR20100135372	A	2010-12-27	KR20100135372
WO2010/147352	A2	2010-12-23	WO2010147352

**Abstract**

(WO2010/147352)

The present invention relates to a high heel shoe having a folding heel which folds resiliently when the heel tip contacts a surface, to enable a shoe wearer to walk in a natural and comfortable manner, and which absorbs the impact transferred from the heel of the wearer's foot to relieve fatigue while walking. As a means for accomplishing this, the high heel shoe having a foldable heel according to the present invention comprises: a sole (110) having a bottom portion (111) contacting the ground, and a tilt portion (112) tilted upwardly from the bottom portion (111); a heel (130) having a front top (131) hinged to the intermediate portion of the lower surface of the tilt portion (112); and a resilient member (140) of which both ends are fixed at a rear lower surface (112a) of the tilt portion (112) and at a top (132) of the heel (130), respectively. The heel (130) has an unfolded state in which the elastic force of the resilient member (140) is released and the top (132) of the heel (130) is spaced apart from the rear lower surface (112a) of the tilt portion (112) by a predetermined angle (a), and a folded state in which the heel (130) rotates from the unfolded state by the load being applied to the tilt portion (112).

Inventors

YUN KEUN SOO

Family 116/432 - FAMPAT - ©Questel

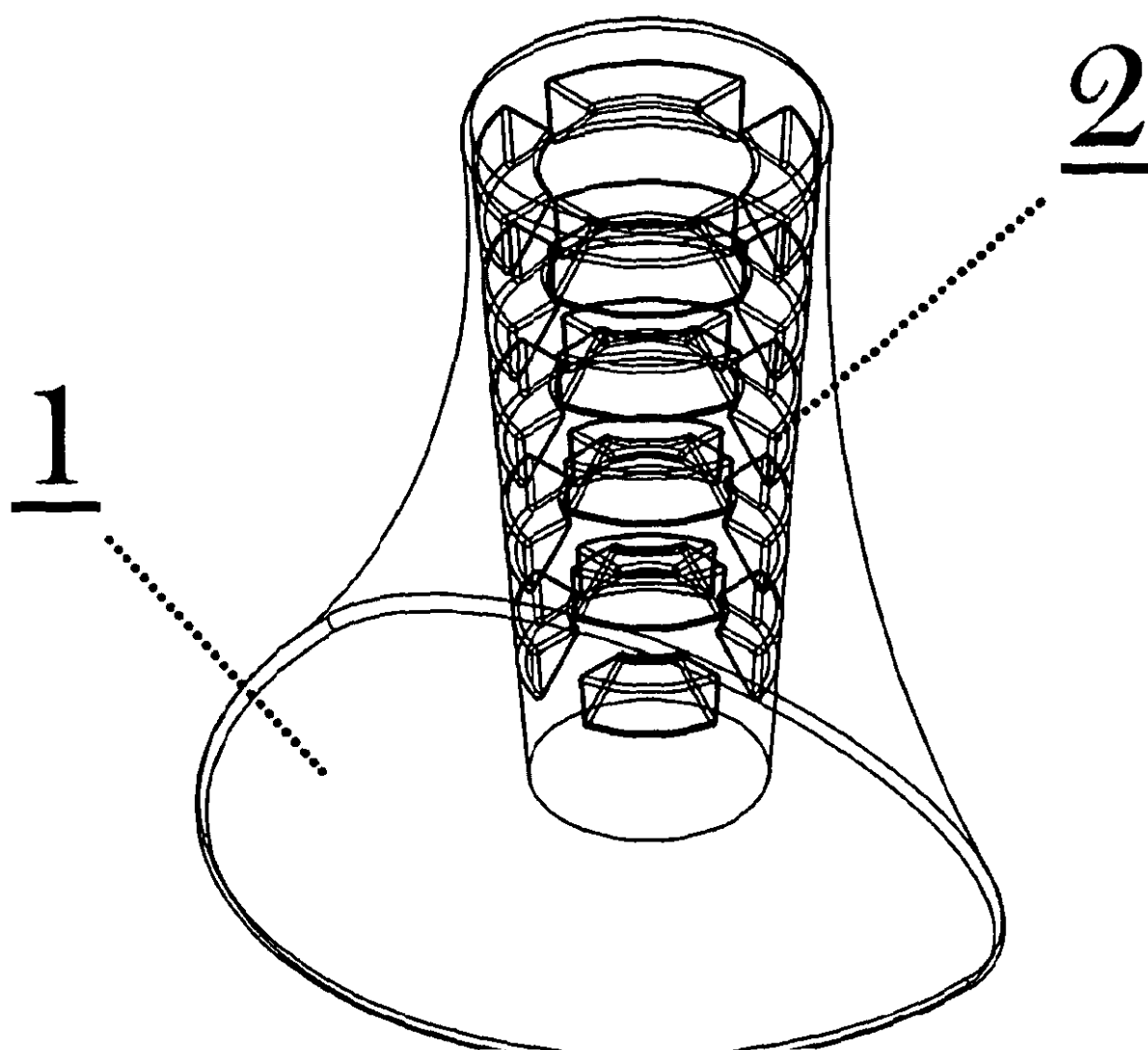
Title

(GB2495739)

Heel cover with enlarged base

Images

FIGURE 1

**Publication data including kind & date**

GB2495739	A	2013-04-24	GB2495739
GB201118019	D0	2011-11-30	GB201118019

**Abstract**

(GB201118019)

A detachable cover 1 for a heel wherein when attached said cover enlarges the base of the heel. The cover may comprise a conical shaped body, and may be resiliently deformable. The inner surface 2 of the cover in contact with the heel may be formed of an elastomer and may be ribbed to grip the heel.

Inventors

SMITH GRAHAM

Family 117/432 - FAMPAT - ©Questel

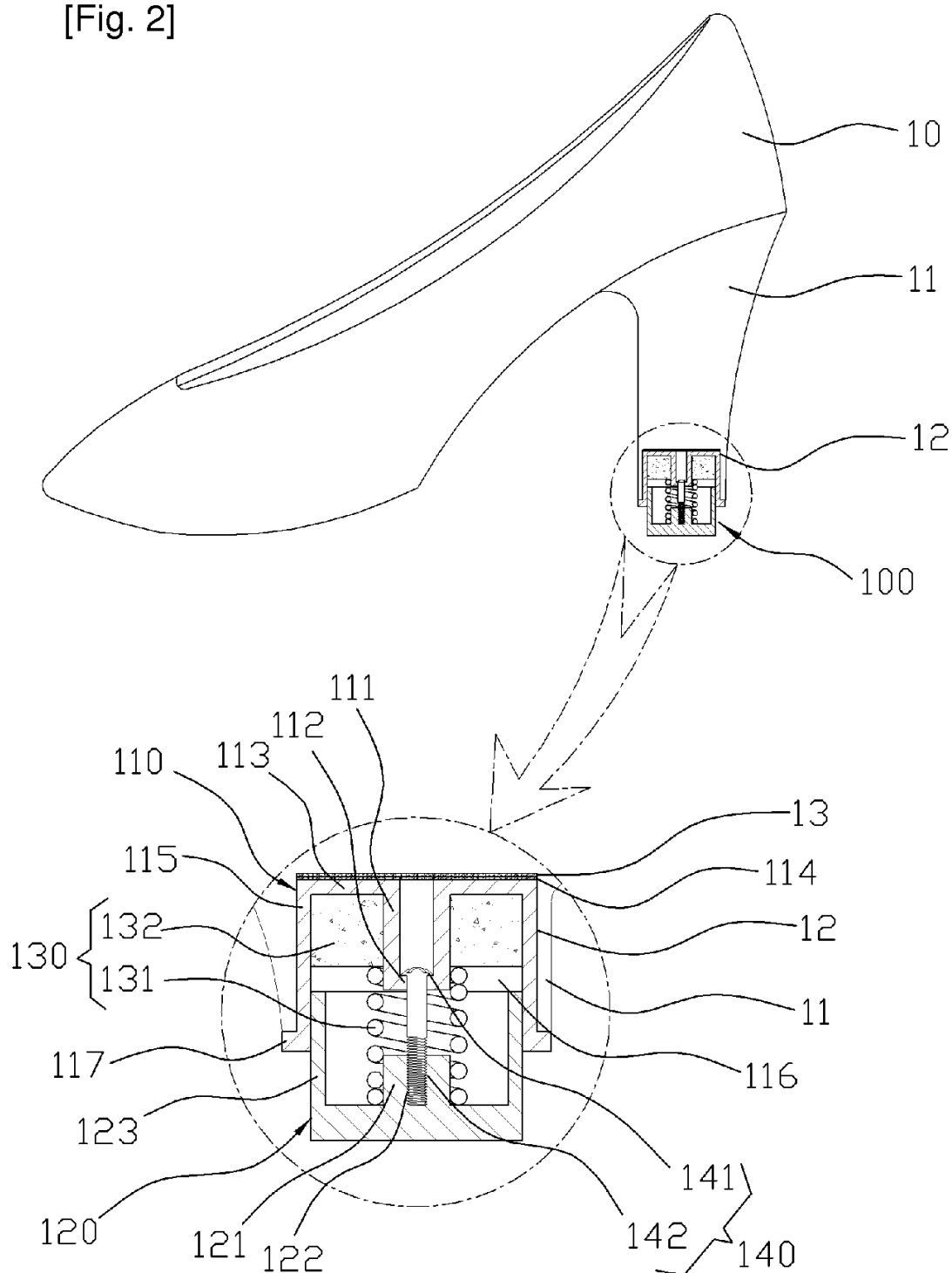
Title

(WO201247059)

Shoe for attenuating impact

Images

[Fig. 2]

**Publication data including kind & date**

WO2012/047059	A3	2012-06-21	WO201247059
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WO2012/047059	A2	2012-04-12	WO201247059
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Abstract

(WO2012/047059)

The present invention relates to a shoe for attenuating impact, wherein not only is an impact-attenuating heel for attenuating impact easily attached to and detached from the sole of the shoe but also deformation of the shoe for attaching the impact-attenuating heel is also made simpler, the configuration of the impact-attenuating heel and the configuration of the assembly structure are also simplified, and strength adjustment and maintenance are facilitated, and the invention comprises: a shoe body in which an accommodating recess in the shape of an upward-facing recess is formed in the bottom surface towards the rear of the heel; and an impact-attenuating heel which is inserted into the accommodating recess in such a way that the sole of the heel that makes contact with the ground projects downwards, and which is equipped in its upper part with a supporting frame that is detachably secured to the ceiling on the inside of the accommodating recess by means of Velcro fastening, and in which an impact-attenuating object that extends and retracts vertically upon impact is interposed between the sole of the heel and the supporting frame.

Inventors

GO JONG TAEK

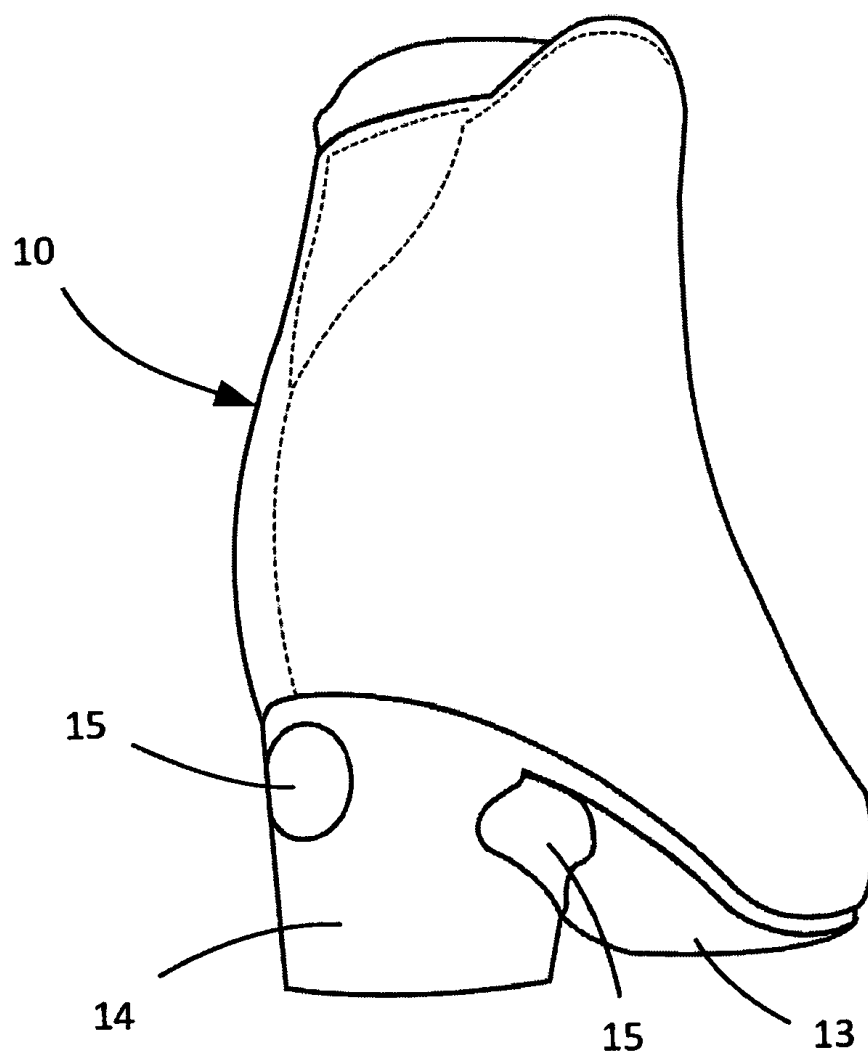
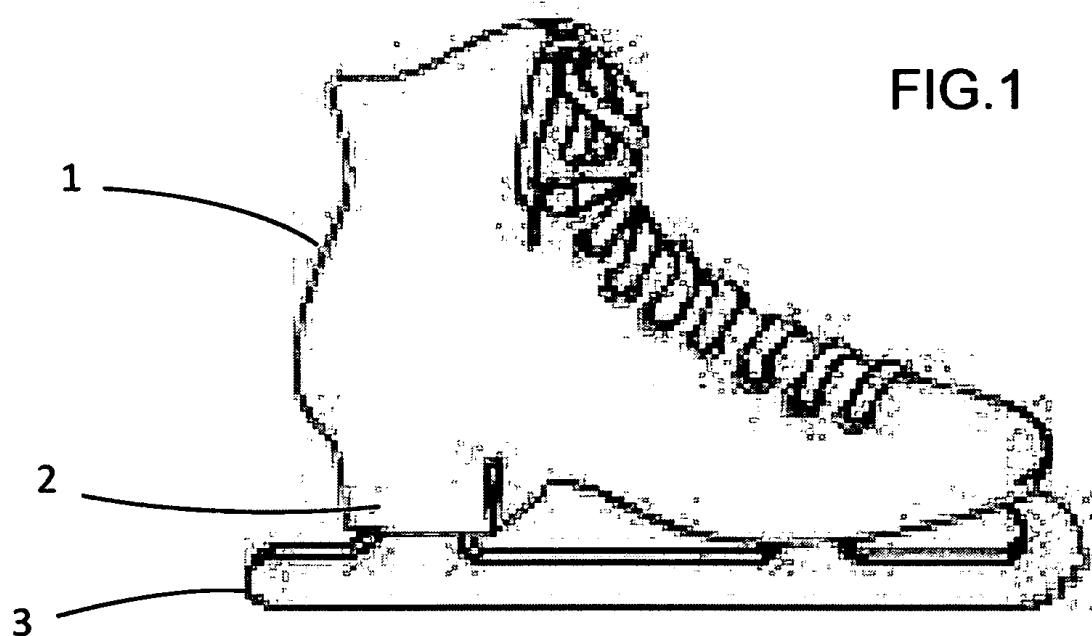
Family 118/432 - FAMPAT - ©Questel

Title

(EP2471398)

Heel of a skate with insert

Images



[EP2471398](#)

A1 2012-07-04 EP2471398

Abstract

(EP2471398)

The skate has a shoe provided with a heel (12) comprising an insert (15) which does not extend over the entire surface of the heel, where the insert is made of elastic material e.g. elastomer, rubber or soft plastic, or rigid material e.g. rigid plastic, metal or fiber reinforced plastic. The insert is fixed in the heel by clipping in a removable manner. The insert is extended in width of the heel such that the insert is visible over a lateral surface of the heel. The insert is extended in length of the heel such that the insert is visible over a rear face of the heel. An independent claim is also included for a method for manufacturing a skate.

Inventors

GIROLIMETTO GIOVANNI

Latest standardized assignees - inventors removed

ROSSIGNOL LANGE

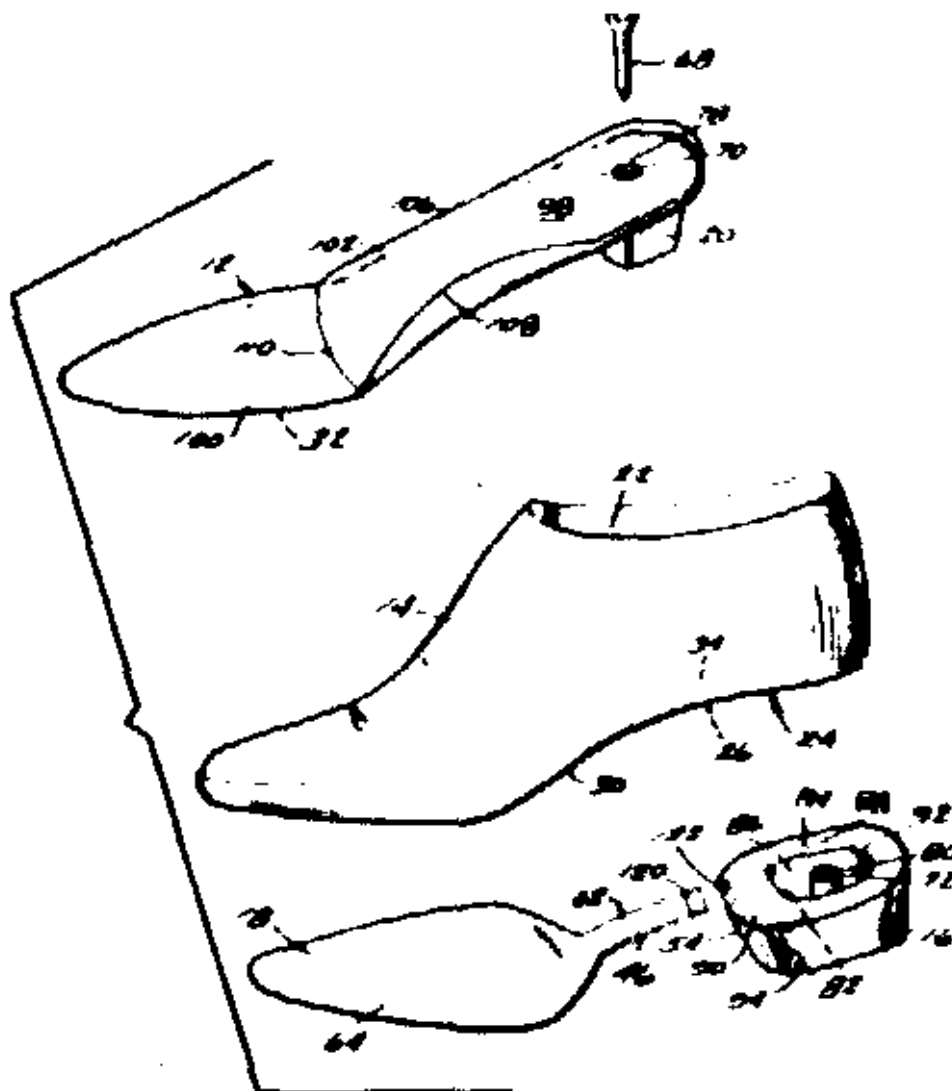
Family 119/432 - FAMPAT - ©Questel

Title

(FR2522254)

INSOLE FOR SHOE EQUIPPED WITH A REMOVABLE HEEL

Images



Publication data including kind & date

BRPI8300023	A2	2018-03-27	BRPI8300023
FR2522254	B1	1987-02-20	FR2522254
GB2115269	B	1985-05-30	GB2115269
PT75837	B	1985-01-09	PT--75837
BR8300023	A	1983-12-13	BR8300023
DE3223853	A1	1983-09-15	DE3223853
GB2115269	A	1983-09-07	GB2115269
FR2522254	A1	1983-09-02	FR2522254
ES513761	A0	1983-03-01	ES-513761
ES8304416	A1	1983-03-01	ES8304416
PT75837	A	1982-12-01	PT--75837
IT8248510	D0	1982-05-26	IT8248510



Abstract

(FR2522254)

A system is provided wherein a dress shoe may be fabricated by even small industrial enterprises or small groups of

workers, using four basic components, namely an anatomically-shaped combination insole and heel jack unit, a removable heel with its securement device, an upper and a sole. By preference the insole/heel jack unit is constituted by a body of plastic material sandwiched between and united to upper and lower layers of sheet material. In the shoe assembly operation, the insole/heel jack unit is inserted into the upper and secured in place with the heel jack exposed below, a sole is laminated to the underside of the forward portion of the upper and a heel of selected height and style is removably secured in place.

(From US4409745 A)

Inventors

MUSCI NICOLA

Latest standardized assignees - inventors removed

MUSCI FLLI

Family 120/432 - FAMPAT - ©Questel

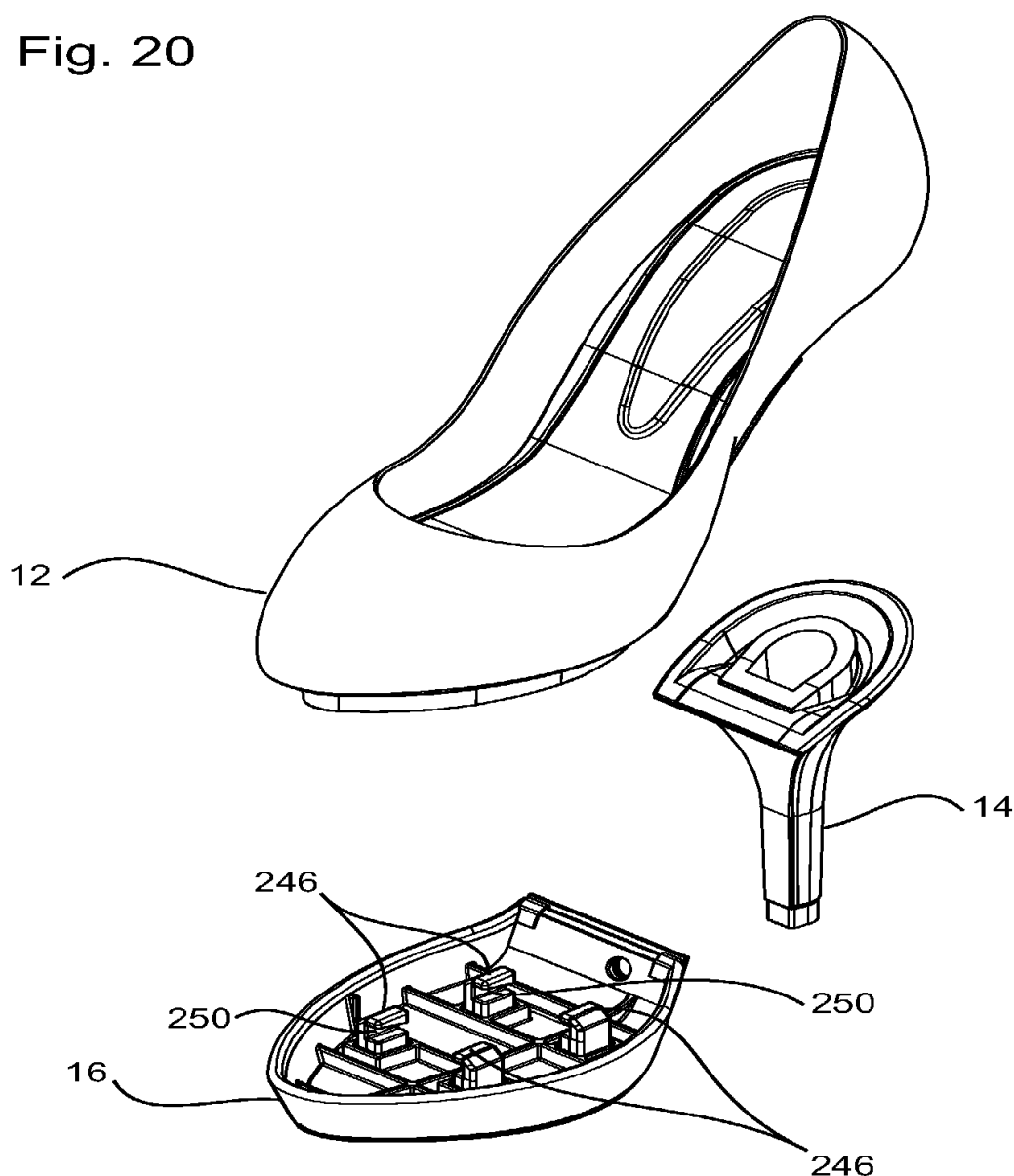
Title

(WO201254981)

Replaceable footwear sole and heel

Images

Fig. 20



[WO2012/054981](#)

A3 2012-07-12 WO201254981

[WO2012/054981](#)

A2 2012-05-03 WO201254981

**Abstract**

(WO2012/054981)

An item of footwear (10), such as a shoe or boot, has a replaceable (outsole 16) and/or heel (14) by means of respective releasable attachment means. The outsole can be attached/detached to/from an underside of the upper (12) by actuating a captive slide member (160,206) to engage/release from portions of the outsole. The heel can be attached/released from the upper by a threaded releasable fastener, such as a screw or bolt fastener (66A, 226) or an attachment/release mechanism (102) using a notch and indexing arrangement (Fig 9B). The adaptable footwear allows a user to readily replace the outsole and/or heel for an outsole/heel combination of different height, appearance and/or purpose.

Inventors

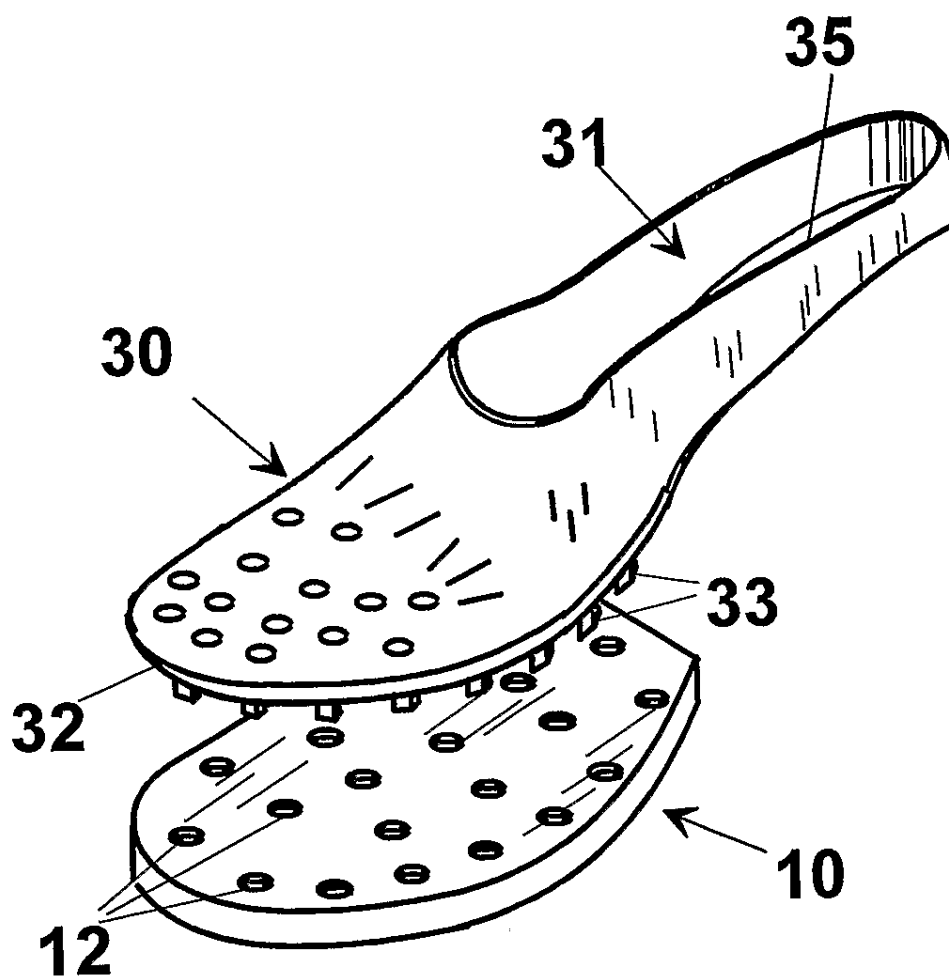
HAMPSON KATHRYN MARY

Family 121/432 - FAMPAT - ©Questel

Title

(WO2007105064)

Overshoe structure and shoe structure to be associated with said overshoe

Images**Publication data including kind & date**[WO2007/105064](#)

A3 2008-01-31 WO2007105064



WO2007/105064

A2 2007-09-20

WO2007105064

ITPI20060029

A1 2007-09-11

IT2006PI0029

**Abstract**

(WO2007/105064)

An overshoe structure and a shoe to be associated (1) comprising a coating portion (30) that is put on a shoe (100) and a stiff element (32) adapted to engage with the coating portion (30) covering the sole of the shoe (100) . In particular, the shoe (100) is put in the coating portion (30) through an opening (31) . The stiff element (32) extends preferably beyond half of the length of the shoe (100), i.e. up to the medial-foot region of the person that wears the shoe (100) . This assists the relative location between the shoe (100) and the coating portion (30) to keep the latter in a correct position during the use. The stiff element (32) can be next to the sole (2) of the shoe (100) for all its length and comprises a first portion (32a) , which in use covers the sole of the shoe (100) at the shoe tip, and a second portion (32b) at an angle with respect to the first portion (32a) and arranged at the medial-foot of the person that uses it.

Inventors

QUARANTA ELISABETTA

Latest standardized assignees - inventors removed

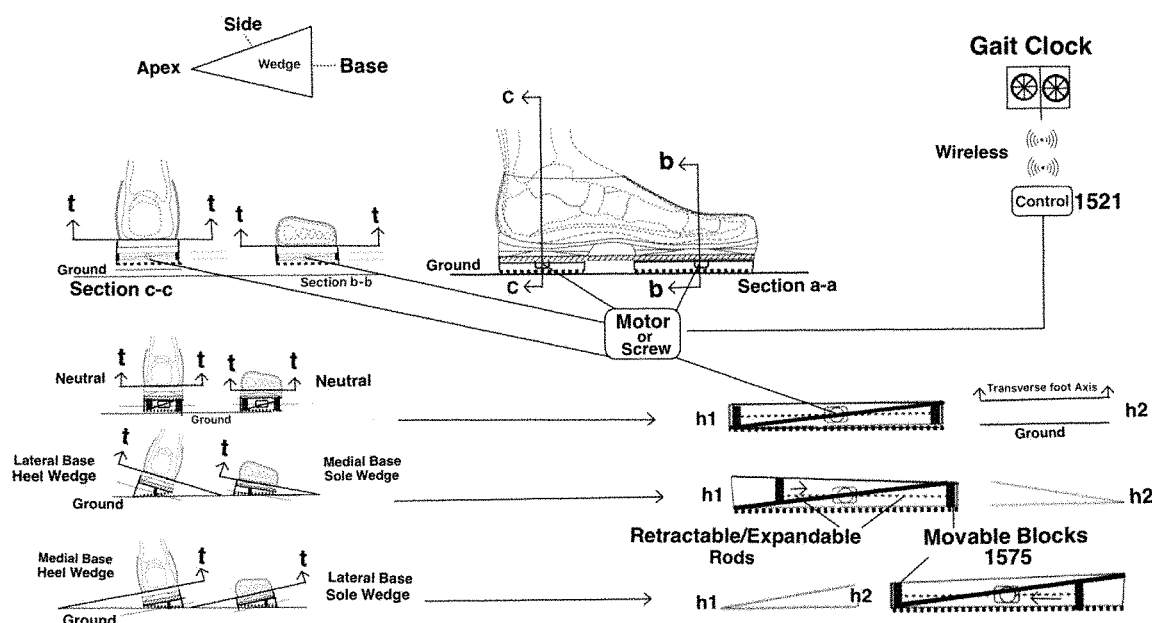
QUARANTA ELISABETTA

Family 122/432 - FAMPAT - ©Questel

Title

(US9872534)

Footwear with dynamic arch system

Images**Publication data including kind & date**

US9872534

B2 2018-01-23

US9872534

US9857788

B2 2018-01-02

US9857788

US20160239014

A1 2016-08-18

US20160239014

US20160081425

A1 2016-03-24

US20160081425

**Abstract**

(US20160081425)

The present invention is footwear having opposing wedge shaped configurations in the bottom of the front sole section and the back sole section which provide rotation of the front sole section and the back sole section in opposite directions when weight is applied. The present invention is also footwear convex shaped in the longitudinal direction with a split sole having opposing wedge shaped configurations in the bottom of the front sole section and the back sole section that provide rotation of the front sole section and the back sole section in opposite directions when weight is applied. The invention further includes footwear having at least one pair of wedges on the outsole which provide footwear having improved arch support. The invention is also footwear with a flexible, elastic, member between the front sole section and the back sole section of the sole.

Inventors

PIONTKOWSKI SHLOMO

PIONTKOWSKI SHARONE

Family 123/432 - FAMPAT - ©Questel

Title

(GB2428177)

Stiletto heel protectors

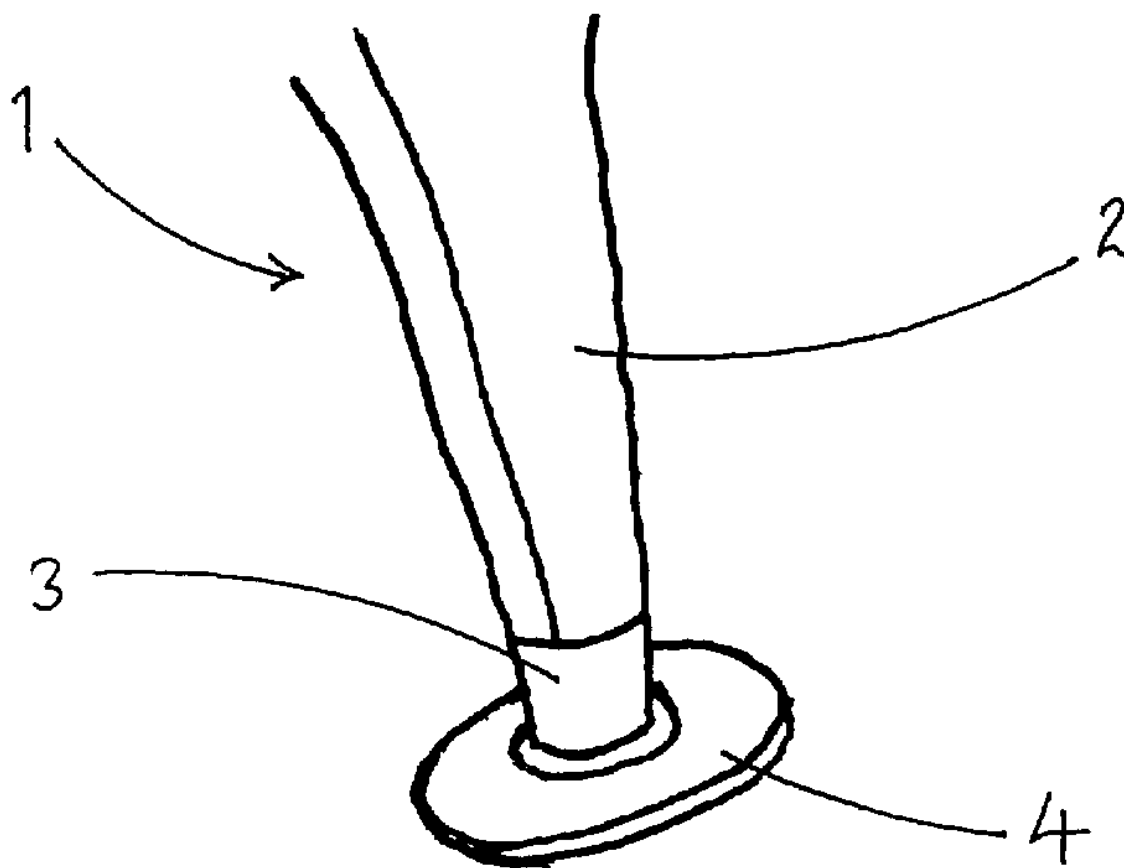
Images

Fig 1

[GB2428177](#)

A 2007-01-24 GB2428177

[GB0514388](#)

D0 2005-08-17 GB200514388

**Abstract**

(GB0514388)

The device is intended to protect wooden floors and the like from marking by stiletto heels. It is capable of remaining on the bottom of the heel for prolonged periods. A generally planar ground contact (5, 7) of substantially translucent material is so mountable to a lower surface (3) of the heel (2) as to extend radially away from the heel.

Inventors

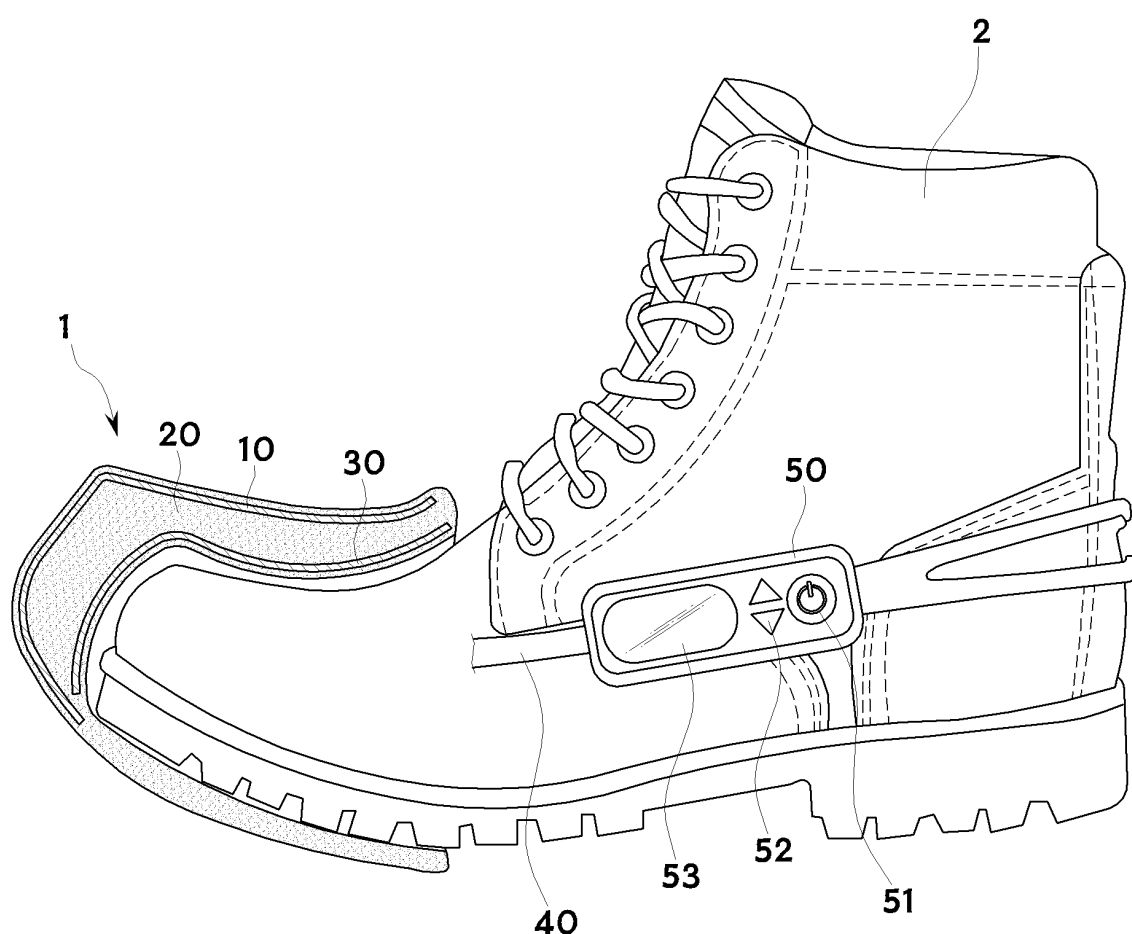
LASOTA ANDREW STANLEY

Family 124/432 - FAMPAT - ©Questel

Title

(KR200485593U)

Safety cover for shoes having heating function and shoes having safety cover

Images**Publication data including kind & date**[KR200485593](#)

Y1 2018-03-14 KR200485593U

[KR20170004417](#)

U 2017-12-29 KR20170004417U

**Abstract**

(KR20170004417)

The present invention relates to a front portion of the shoe to be worn on the wearer's toes and the instep region for external impact can be securely protected from well, to transfer heat to the surface of the shoe wearer's foot warm even in the winter shoes can be retained with a heat generating device including a safety cover for footwear and the footwear. According to the present invention has the function of a safety cover for heating the shoe is formed in a curved shape of the toe of the shoe, the shoe can be accommodated in a front portion of the rear space is opened, the toe and instep of a

(EP2793633)

Footwear having interchangeable heels, includes: (a) a top component having a back section, a middle, a front and an upper section for encompassing a foot, the top component having an underside shape and contour, and having at least two separate connect mechanisms for connection to a bottom component; (b) a bottom component having a having back, a middle, and a front section, the bottom component having a topside shape and contour sufficiently coinciding with the top component underside shape and contour so as to nest with one another, and having at least two separate connect mechanisms corresponding to the at least two separate mechanisms of the top component for connection to it; and (c) at least one locking mechanism.

Inventors

SACCULLO SANDRA L

DIMUZIO MARK

SERBINSKI ANDREW

WYANT RICHARD

LEAL ERIC

Latest standardized assignees - inventors removed

ONE CLICK

BARBARA T BROOKS TRUSTEE OF THE ALEXANDRA C BLAIOTTA 2014 NON GRANTOR DELAWARE TRUST

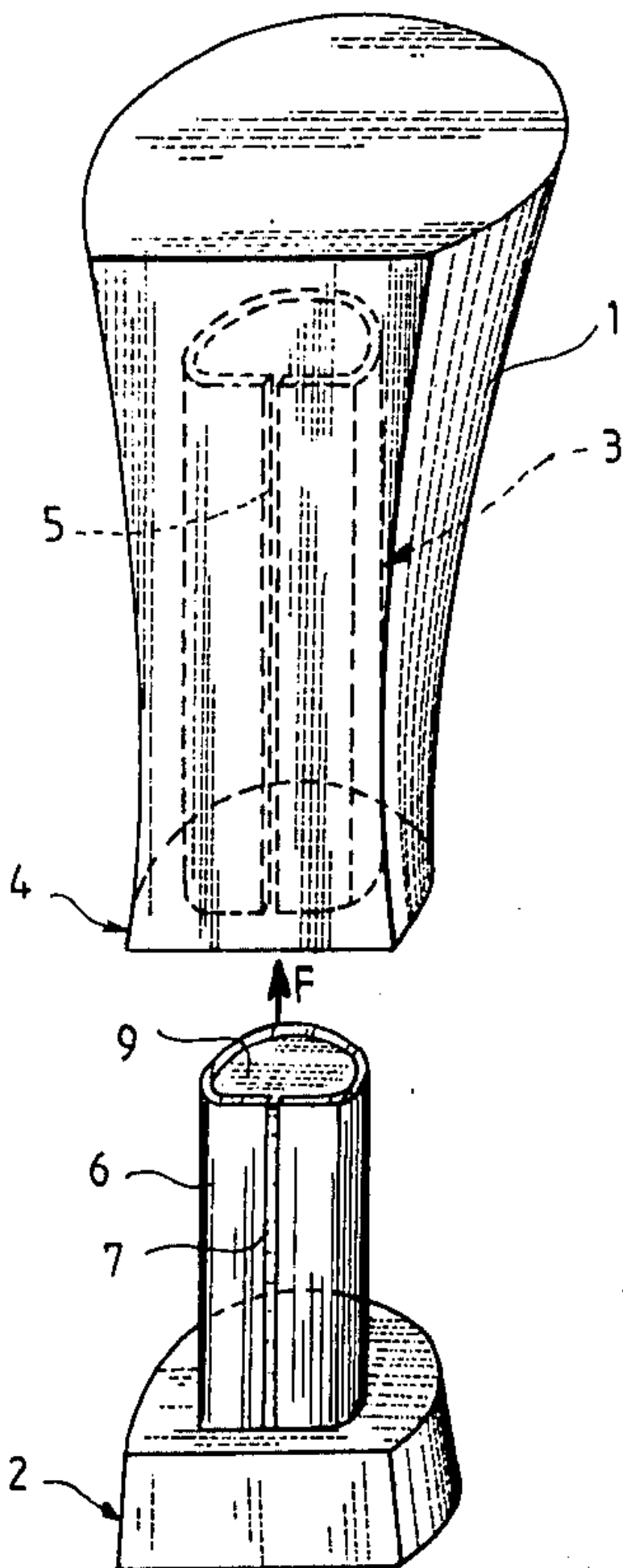
Family 126/432 - FAMPAT - ©Questel

Title

(EP--68056)

Heel, in particular for women's shoes.

Images



Publication data including kind & date

FR2507874	B1	1984-06-22	FR2507874
US4424635	A	1984-01-10	US4424635
EP0068056	A1	1983-01-05	EP--68056
FR2507874	A1	1982-12-24	FR2507874

**Abstract**

(EP0068056)

A shoe heel, particularly for a woman's shoe, has a body with a small cross-sectional end area and a wear piece or heelpiece of an abrasion-resistant material. The body and wear piece are connected by a pair of telescoping tubes having non-circular cross-sectional shapes, one of which is embedded in the body during molding thereof, and the lower end of the other is embedded in the wear piece. The tubes have aligned slots with material exposed to increase the frictional engagement for holding them together.

(From US4424635 A)

Inventors

JOURDAN HENRI

Latest standardized assignees - inventors removed

POLYPLASTIFORM

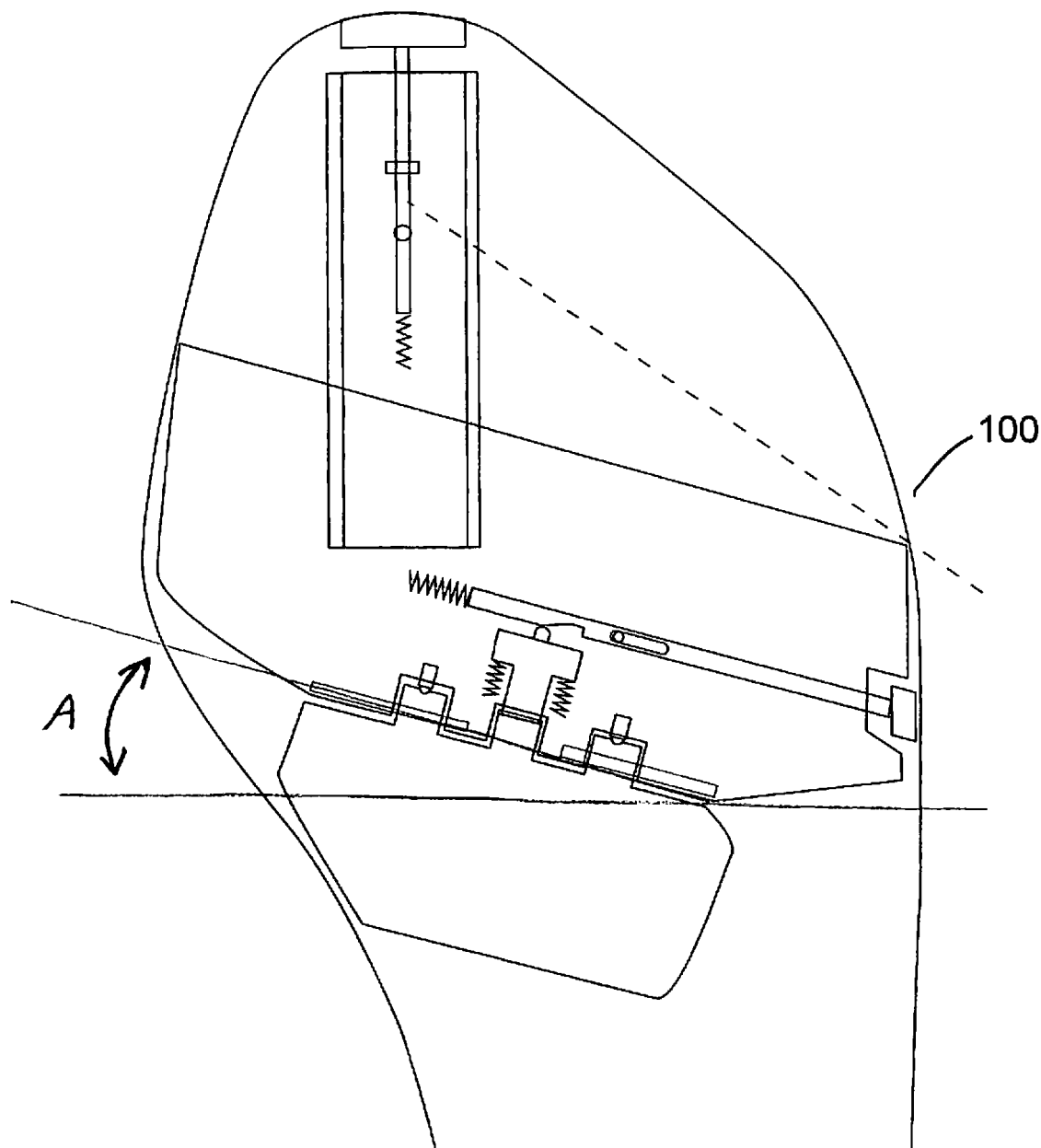
Family 127/432 - FAMPAT - ©Questel

Title

(EP2858524)

Reconfigurable shoe

Images



Publication data including kind & date

US9648921	B2	2017-05-16	US9648921
EP2858524	A4	2017-04-05	EP2858524
US9119437	B2	2015-09-01	US9119437
EP2858524	A1	2015-04-15	EP2858524
US20130333246	A1	2013-12-19	US20130333246
WO2013/185034	A1	2013-12-12	WO2013185034
US20130326913	A1	2013-12-12	US20130326913



Abstract

(EP2858524)

A hinge member incorporated between a footbed toe plate and footbed arch plate allowing a shoe to be configured as a flat or heeled shoe. The footbed toe plate and footbed arch plate are rotatably joined via one or more hinge pins inserted through interlaced teeth of each plate. A spring-biased hinge lock extending between the two plates is controlled by a spring-biased pin in positioned with a notch selectively receiving the hinge lock such that the hinge lock disengages said footbed arch plate allowing said footbed arch plate to rotate relative to said footbed toe plate. The heel block includes a spring-biased heel lock extending into a removable heel and is controlled by a spring-biased pin positioned with a notch selectively receiving the hinge lock such that the hinge lock disengages said heel allowing said heel to be freely removed

Abstract

(WO2013/025638)

A shielding cup is provided for use with a self-fusing member, collapsible heat- concentrating accessory, or on its own. The shielding cup is attached to a shoe heel as a temporary fix for a worn heel tip. The cup can be attached to the heel by a self-fusing member that binds to itself. The cup can also be attached by using a heat source and collapsible heat-concentrating accessory to concentrate heat on the heat-shrink version of the shielding cup. The heat-shrink cup can also be attached without the need for a separate accessory.

Inventors

HWANG GRACE

ZADNO NICOLAS

Latest standardized assignees - inventors removed

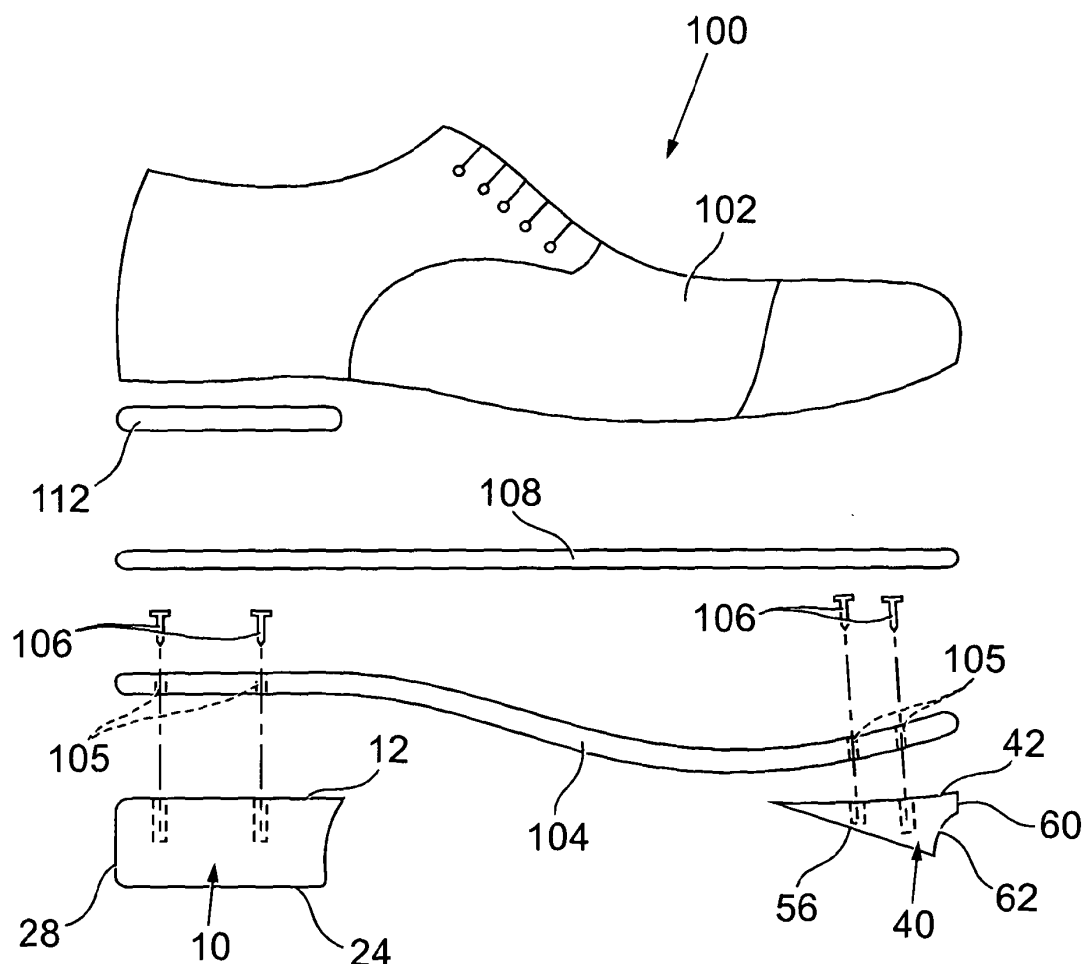
GOGO HEEL

Family 129/432 - FAMPAT - ©Questel

Title

(EP2496103)

Dance shoe and method of manufacture thereof

Images**Publication data including kind & date**

US20120260523	A1	2012-10-18	US20120260523
EP2496103	A2	2012-09-12	EP2496103
WO2011/055135	A3	2011-09-01	WO201155135
WO2011/055135	A2	2011-05-12	WO201155135



[GB0919474](#)

D0 2009-12-23 GB200919474

Abstract

(EP2496103)

A dance shoe (100) is provided which comprises an upper (102) and a sole (104) attached to the upper (102). Heel and tip portions (10, 40) formed from a moulded plastics material are attached to rear and front portions of the sole (104), respectively. A method of forming such a shoe is also provided. By forming the heel and tip portions from a moulded plastics material the shape, weight and sound created by the heel and tip portions will be consistent across different pairs of the dance shoe.

Inventors

CAMPBELL GORDON

Latest standardized assignees - inventors removed

CAMPBELL CHRISTINE

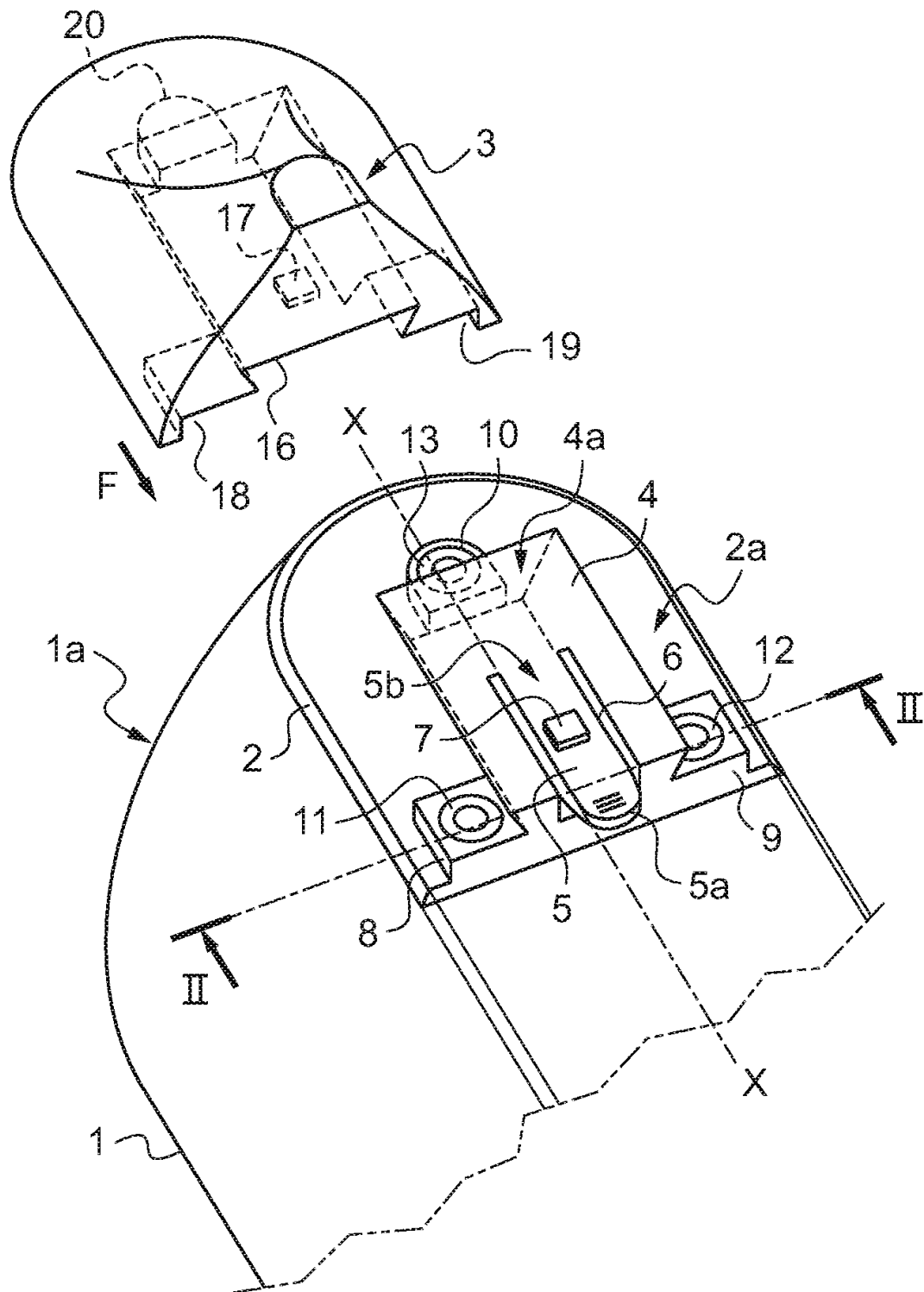
Family 130/432 - FAMPAT - ©Questel

Title

(EP2348911)

Multipurpose boot

Images


Publication data including kind & date

BRPI0917718	A2	2016-05-31	BR200917718
BRPI0917718	A1	2016-02-16	BR200917718
EP2348911	A2	2011-08-03	EP2348911
US20110179670	A1	2011-07-28	US20110179670
FR2935231	B1	2010-09-24	FR2935231
WO2010/023380	A3	2010-04-22	WO201023380
FR2935231	A1	2010-03-05	FR2935231
WO2010/023380	A2	2010-03-04	WO201023380


Abstract

(EP2348911)

The invention relates to a boot having a footwear part with a rear part (1a), a base (2) attached under the rear part of the footwear part, a heel (3) fastened removably to the base (2) by virtue of suitable assembly means (4, 16, 2a, 3a) and a means (5, 7, 17) for automatically locking and manually unlocking said assembly means, characterized in that the base (2) is a thin plastic plate which has at least three threaded metal inserts (11, 12) (nuts) to take three screws (14, 15) for fastening the base (2) under the rear part (1a) of the footwear part of the boot.

Inventors

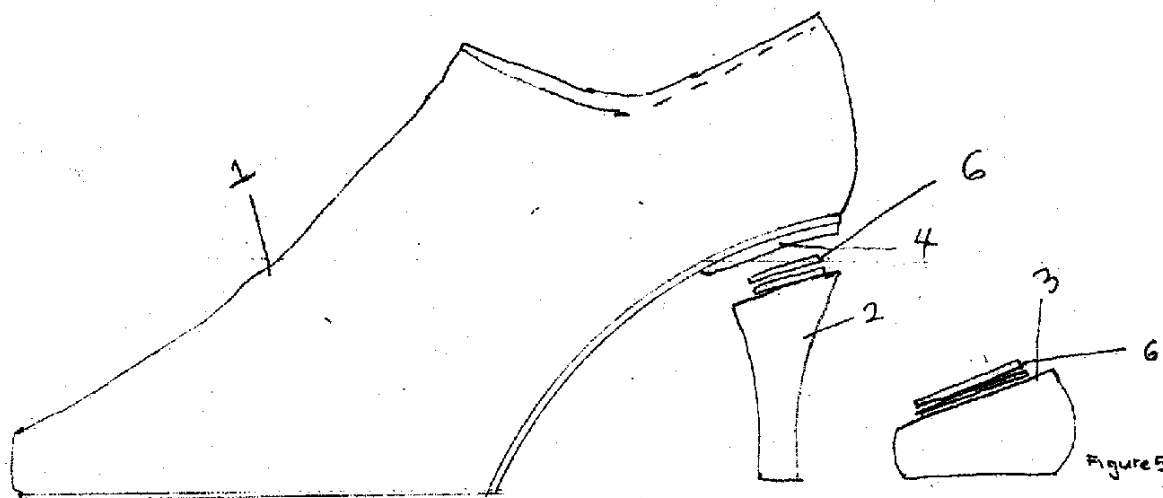
LESPOUR CHANTAL

Family 131/432 - FAMPAT - ©Questel

Title

(GB2420687)

Detachable heels with shock absorbing means for footwear

Images**Publication data including kind & date**

GB2420687	A	2006-06-07	GB2420687
GB0424968	D0	2004-12-15	GB200424968

**Abstract**

(GB0424968)

A detachable heel for footwear that has shock absorbing means and means to attach the heel to the underside of the footwear. The shock absorbing means may be a gel material embedded in the heel (Fig 4,5) or air contained within the heel. The heel may be attached to the footwear by screwing the heel to the footwear, by hooking the heel to the footwear (Fig 7, 8) or by sliding the heel into position via a dove joint between the heel and the footwear for example (Fig 6). Preferably the detachable heel may be formed as a low heel and as a high heel to allow the user to inter-change the heels according the user's needs.

Inventors

OKWAUOSA NONSO

Family 132/432 - FAMPAT - ©Questel

Title

(GB2069314)

Heels units

Images

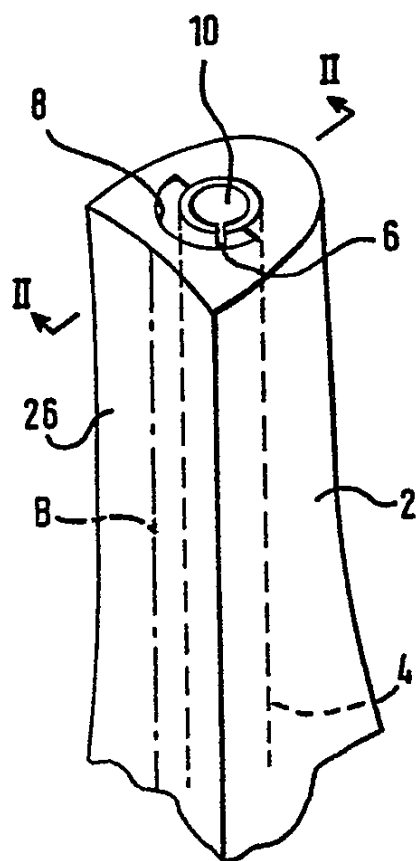


FIG. 1.

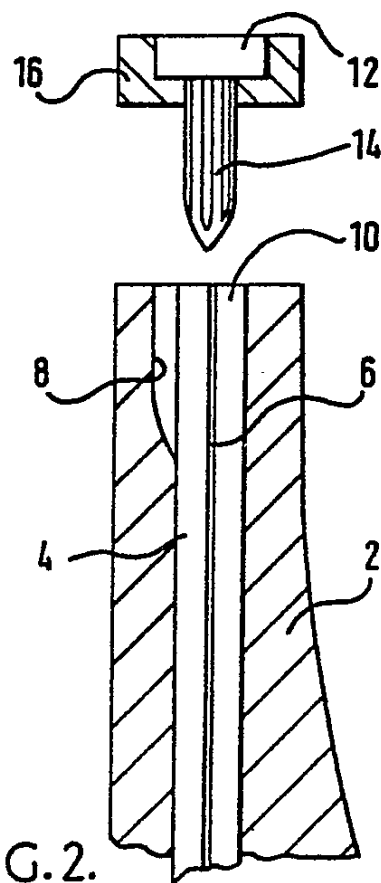


FIG. 2.

Publication data including kind & date

[GB2069314](#) B 1983-08-17 GB2069314

[GB2069314](#) A 1981-08-26 GB2069314

**Abstract**

(GB2069314)

A heel unit (2) has a reinforcement rod (4) having at least a hollow end portion (10) with a longitudinal split (6) therein enabling the end portion of said rod to receive a fastener (14) in a force-fit, said heel unit being moulded of plastics material arranged substantially to embed the rod (4) therein and provided with a part-annular cavity (8) arranged adjacent a heel breast region (26) of the unit in the region of the end portion of the split rod, so that insertion of fastener 14 and consequential expansion or rod is less likely to split unit 2 than would be the case if no cavity 8 were provided, and yet engagement between the unit 2 and end portion of rod 4 ensures greater strength of the heel unit than would be realised if cavity 8 were fully annular. The flow of plastics during injection of the heel produces a weld line where flow streams meet.

Latest standardized assignees - inventors removed

DELTA MOULDINGS

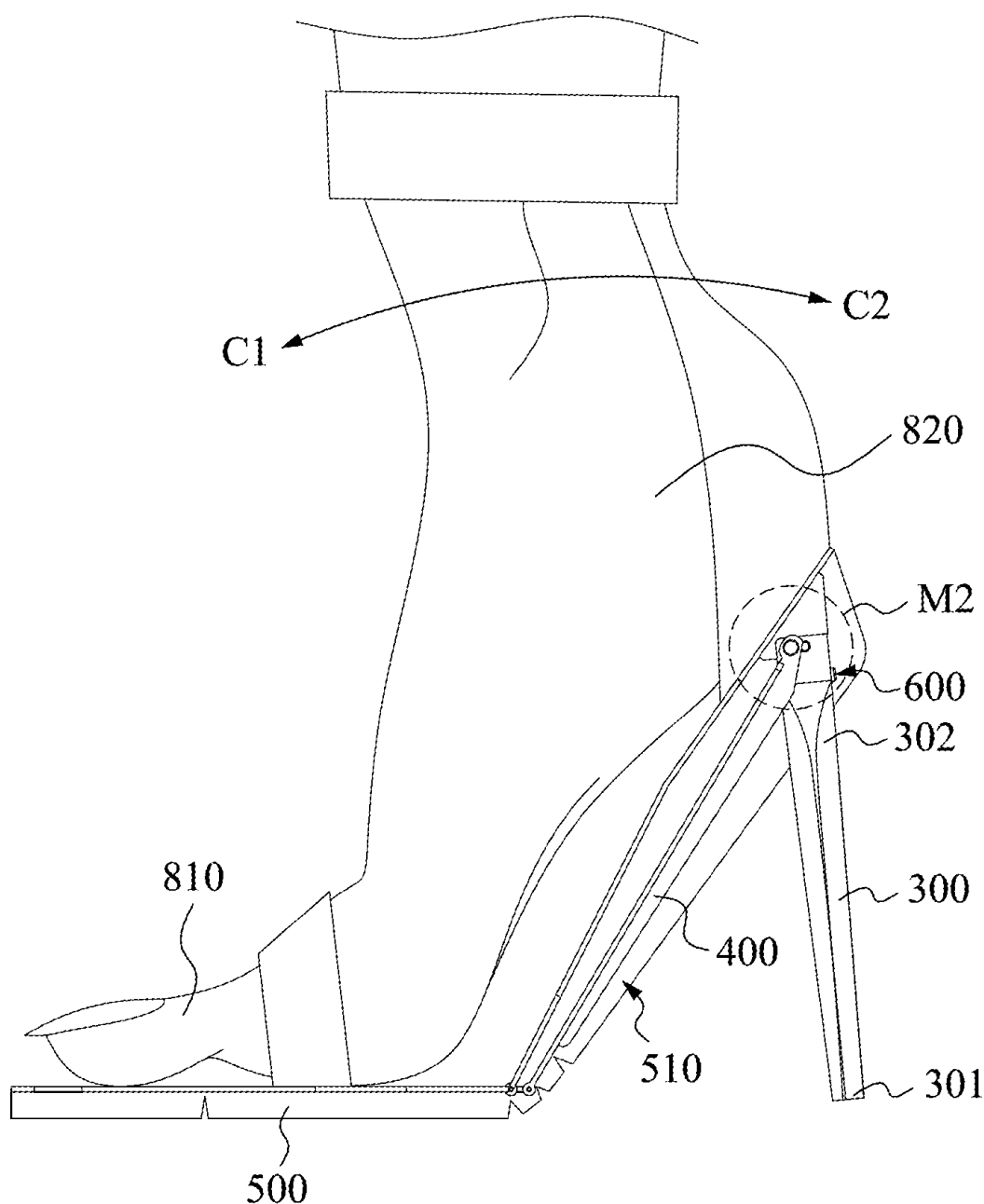
Family 133/432 - FAMPAT - ©Questel

Title

(EP3434133)

Convertible high-heel shoe

Images



Publication data including kind & date

EP3434133	A1	2019-01-30	EP3434133
JP6371006	B2	2018-08-08	JP6371006
JP2018513697	A	2018-05-31	JP2018513697
US20180049516	A1	2018-02-22	US20180049516
CN107212524	A	2017-09-29	CN107212524
WO2017/161671	A1	2017-09-28	WO2017/161671



Abstract

(EP3434133)

Provided is a convertible high-heel shoe (10), comprising: a shoe body (100), a shoe board (200), a heel (300), a connector (400), and a sole (500). The shoe board (200) is disposed on one side of the shoe body (100) and comprises an anterior support (210) and a posterior support (220). The posterior support (220) pivotally attaches to the anterior support (210) and has a pivot attachment (230) disposed on the side opposite the shoe body (100). One end of the heel (300) pivotally attaches to the pivot attachment (230). The connector (400) is disposed on the side of the posterior support (220) having the pivot attachment (230) and pivotally attaches the anterior support (210) to the heel (300). The sole (500) covers the

shoe board (200) and the connector (400) and has, on the side opposite the body (100), a receiving slot (510) for the heel (300).

Inventors

HUANG YA-FEN

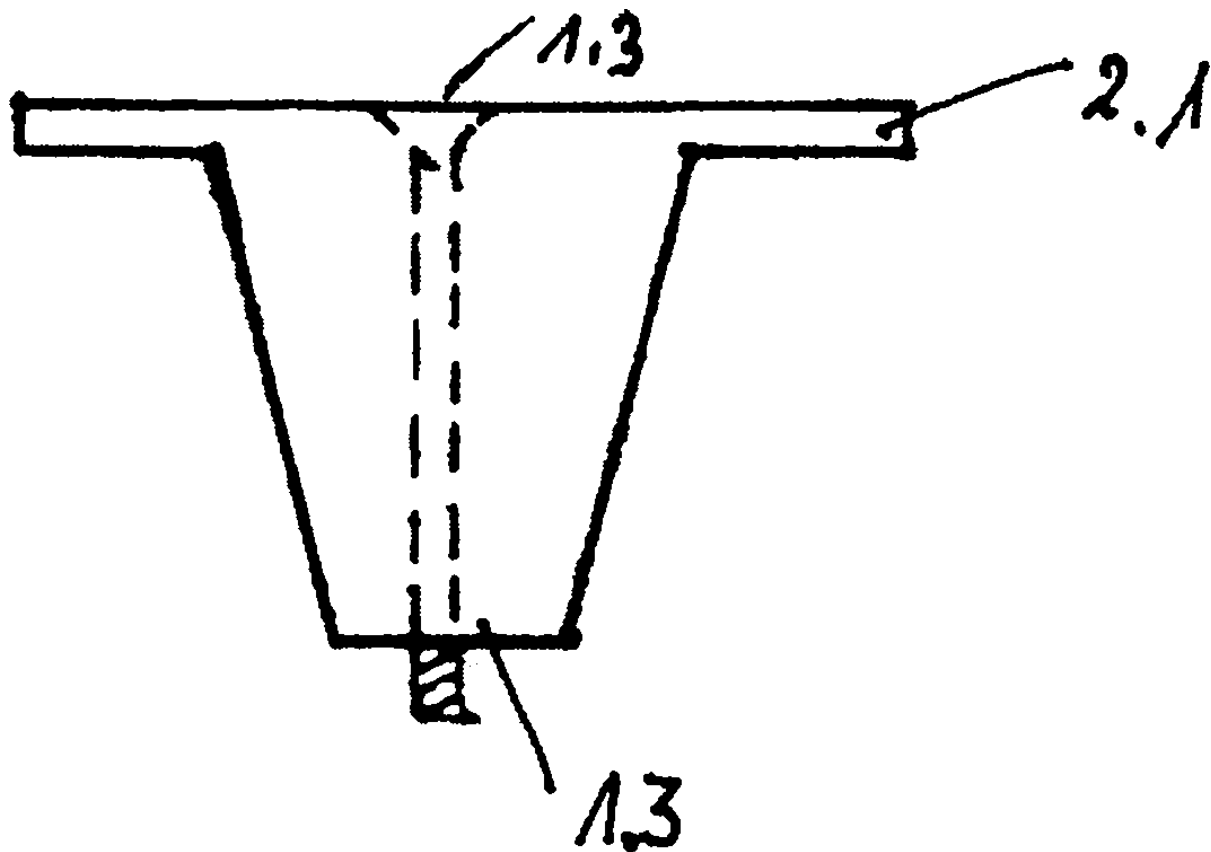
CHIANG TSUNG-JU

Family 134/432 - FAMPAT - ©Questel

Title

(DE202015006795)

Shoe heel shoe heel to change a lock

Images**Publication data including kind & date**[DE202015006795](#)

U1 2016-01-21

DE202015006795

**Abstract**

(DE202015006795)

In that the step-closure is made of 5 parts characterized.

Latest standardized assignees - inventors removed

VON HAGEN EWALD

Family 135/432 - FAMPAT - ©Questel

Title

(WO2012163785)

Exchangeable shoe heel and heel tip

Images

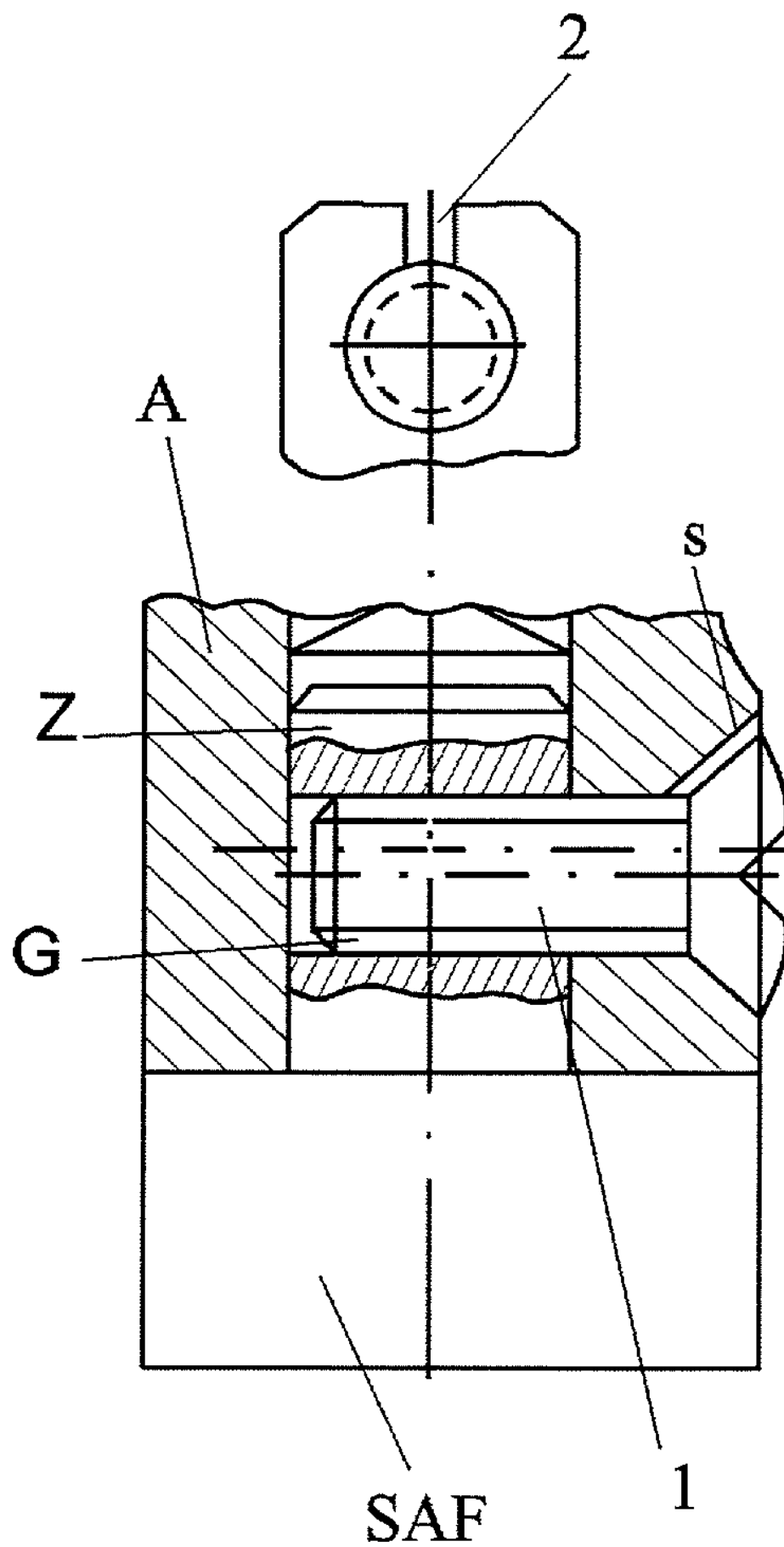


Fig. 1

Publication data including kind & date[WO2012/163785](#) A3 2013-03-28 WO2012163785[WO2012/163785](#) A2 2012-12-06 WO2012163785**Abstract**

(WO2012/163785)

The invention relates to an exchangeable shoe heel, in particular to an exchangeable heel tip, wherein the heel or the heel tip is fastened on a shoe body, and secured against rotation, by means of a screw-connection device. The invention provides that the screw-connection device has at least one retaining element, in particular a screw, which is provided with a device for preventing unintentional release.

Inventors

LEIBER HEINZ

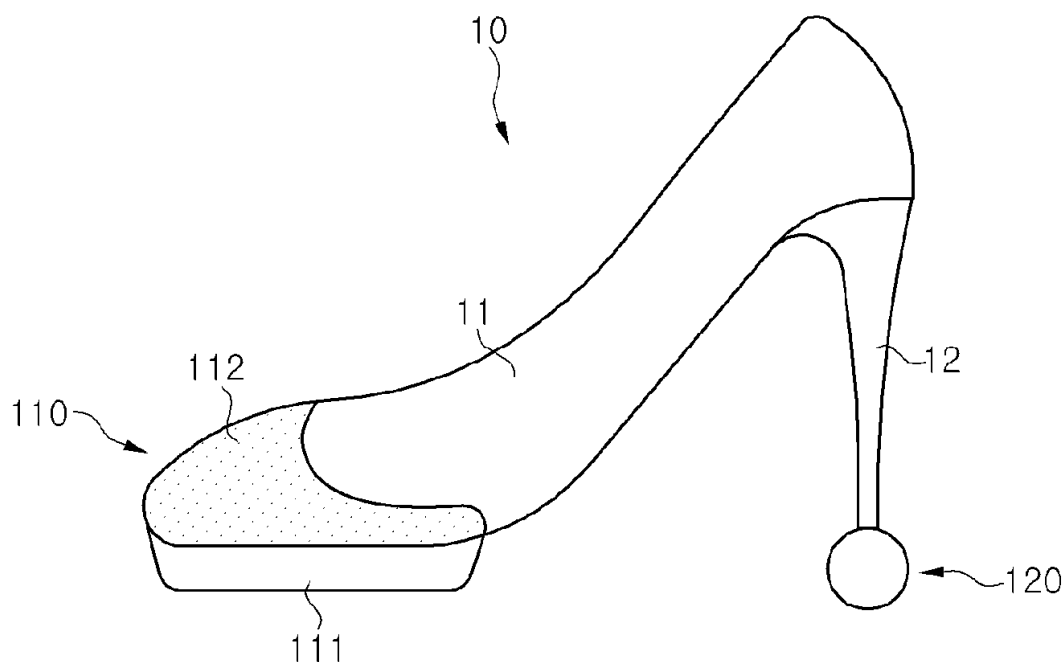
LEIBER KATRIN

Family 136/432 - FAMPAT - ©Questel

Title

(WO201580301)

Fashionable cushion accessory for high heel shoes

Images**Publication data including kind & date**[WO2015/080301](#) A1 2015-06-04 WO201580301**Abstract**

(WO2015/080301)

A fashionable cushion accessory for high heel shoes of the present invention is a cushion accessory for high heel shoes to be detachably provided to the lower part of a high heel shoe comprising a shoe part to be worn on the feet, and a high heel formed at the rear bottom of the shoe part, comprises: a shoe cover capable of being detachably put on the front part of the shoe part; and a high heel cushion member maintaining a predetermined distance to the shoe cover and capable of being detachably worn at an end part of the high heel, and has effects of selecting and wearing various types according to the taste of a user without changing the structure of known high heel shoes, and being sophisticated and providing comfortable walking while worn.

Inventors

JANG MYOUNG HO

Family 137/432 - FAMPAT - ©Questel

Title

(WO201637406)

Shoe provided with detachable heel

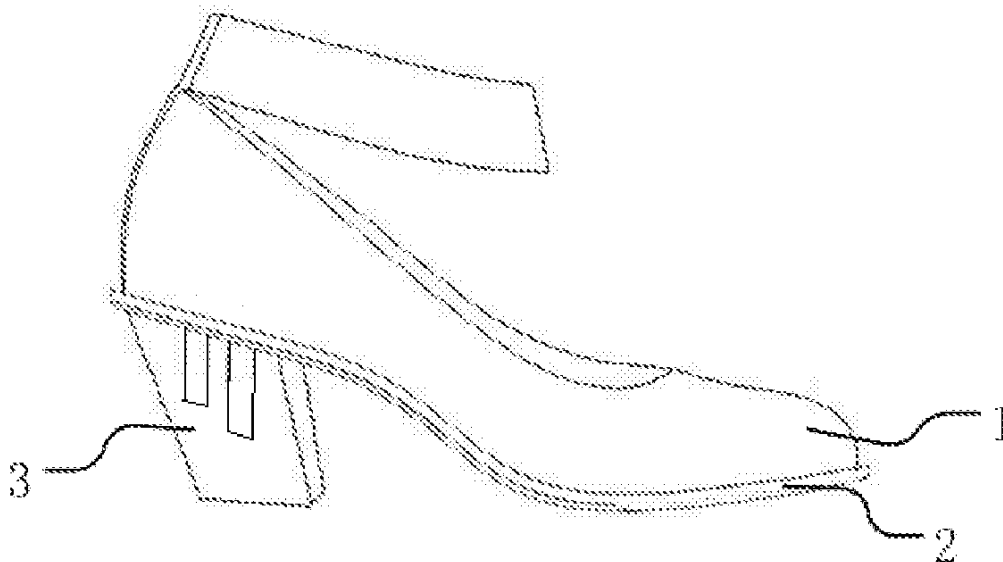
Images

图 1 /Fig.1

Publication data including kind & date[WO2016/037406](#)

A1 2016-03-17

WO201637406

**Abstract**

(WO2016/037406)

A shoe provided with a detachable heel (3) comprises a shoe body. The shoe body comprises a vamp (1), an insole (2) connected to the vamp (1), and a heel (3) detachably connected to the insole (2). A heel pad (4) is disposed at the joint of the insole (2) and the heel (3). The insole cambered surface of the heel pad (4) and the bottom arc of the insole (2) have the same curvature, and a heel attachment surface and the heel (3) can be attached in an adaptive manner, so that the insole (2), the heel pad (4) and the heel (3) can be completely attached together without gaps. The defects are overcome that bottom arcs of each pair of shoes cannot be accurate and unchanged and the shoe bottom arcs and arcs of heel attachment surfaces cannot be completely attached, due to the limitations of a conventional shoe making process. The stability, safety and comfort of the shoe bodies are ensured.

Inventors

IP CHIU HING

Latest standardized assignees - inventors removed

DONGGUAN CHISHING MANUFACTURING

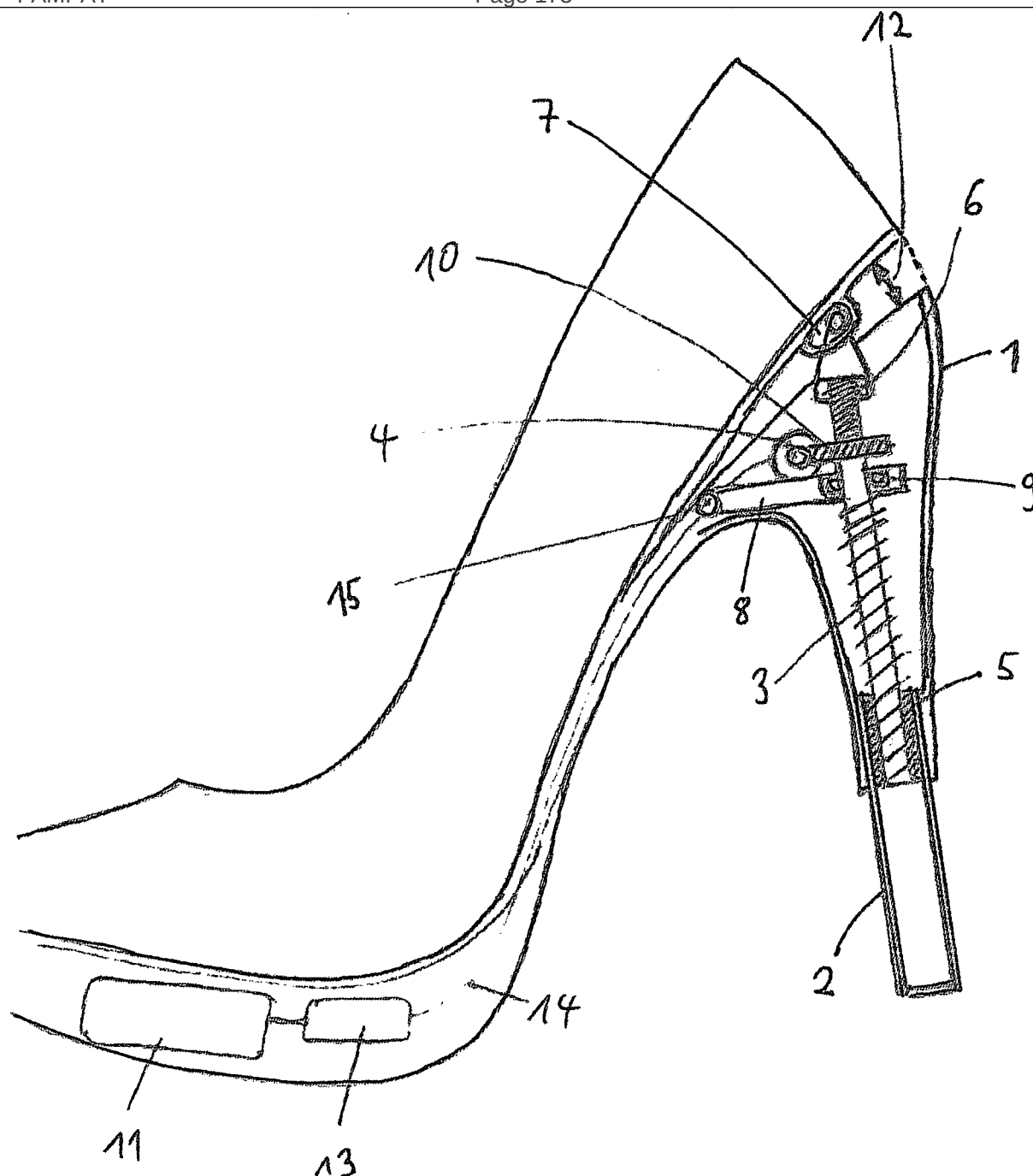
Family 138/432 - FAMPAT - ©Questel

Title

(DE202014002253)

Shoe, cone -, with a vertically adjustable shelf

Images

**Publication data including kind & date**

DE202014002253

U1 2014-04-09

DE202014002253

**Abstract**

(DE202014002253)

Shoe, cone -, with a vertically adjustable shelf (1, 2), a heel and a shoulder portion (1) near ground-shoulder portion (2) telescopically displaceable therein, wherein the heel heel portion (1) close to the floor and guided therein longitudinally in the heel portion (2) is coupled to said shoe sole, having the features, in the step (1, 2) is a motor drive (4), also in the paragraph on a (1, 2) acting adjusting (3) received, and the adjusting the adjusting element (3) for changing the drive both (4) the telescopic displacement by the heel height, and a proportional change in the pivoted position of the shoulder (1, 2) causes.

Latest standardized assignees - inventors removed

GASSMANN JASMIN

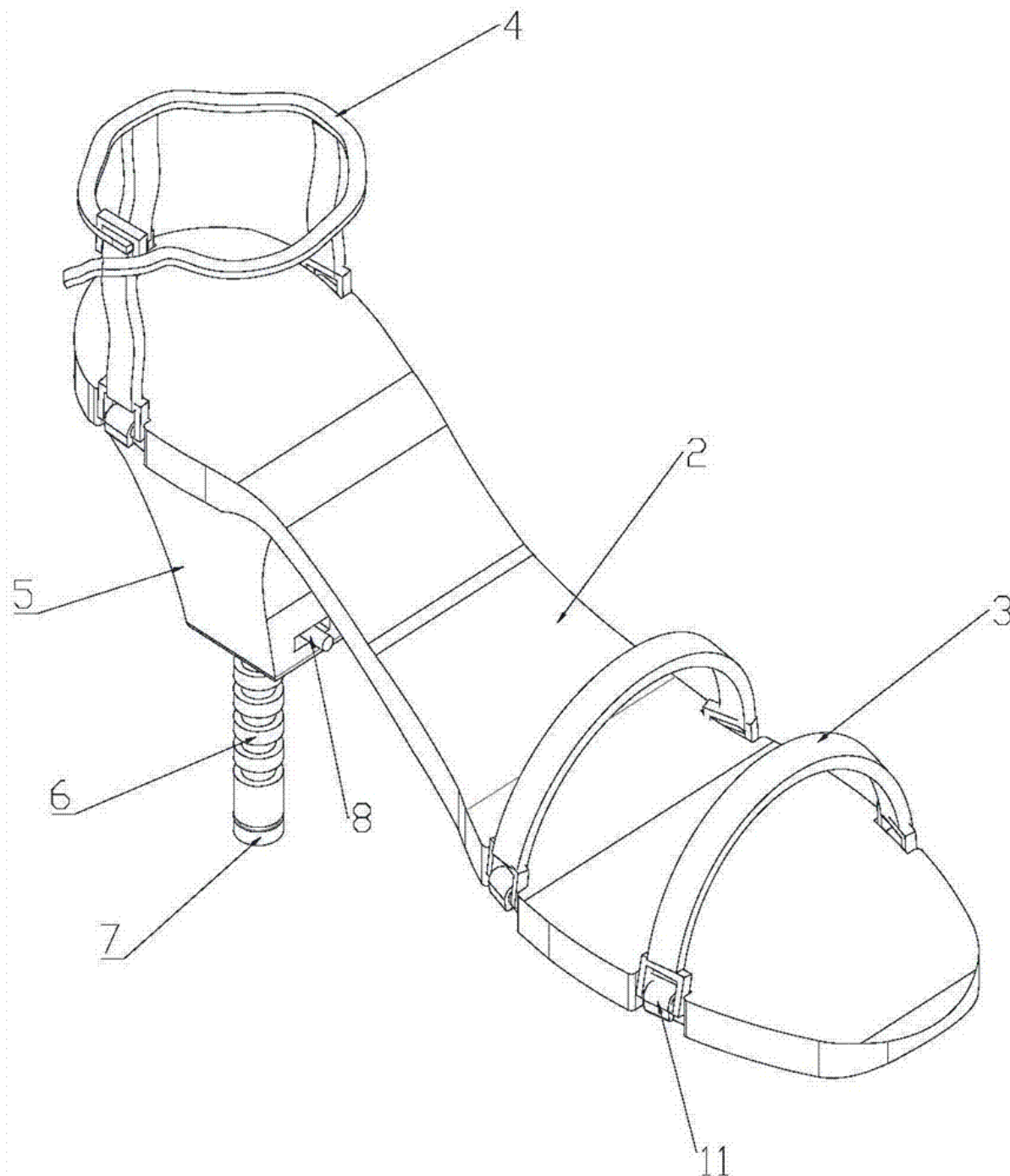
Family 139/432 - FAMPAT - ©Questel

Title

(CN108813799)

Liftable detachable high-heeled shoe

Images



Publication data including kind & date

[CN108813799](#)

A 2018-11-16 CN108813799



Abstract

(CN108813799)

The invention belongs to the technical field of high-heeled shoes and discloses a liftable detachable high-heeled shoe. The high-heeled shoe includes a shoe baseplate, a free shoelace, a free vamp and a heel body arranged under the shoe baseplate, wherein the free shoelace and the free vamp are detachably arranged on the upper portion of the shoe baseplate; a first containing cavity with a lower opening is formed in the heel body, a dimensional spring and a spring guiding column are arranged in the first containing cavity, the spring guiding column is sleeved with the dimensional spring, and a lifting control switch is arranged on the inner side wall of the heel body; the lifting control switch can penetrate through the inner side wall of the heel body, and a middle heel rotating shaft and a heel base are arranged under the heel body in sequence; the middle heel rotating shaft can enter the first containing cavity through the bottom of the heel body, and the heel base is embedded in the lower portion of the middle heel rotating shaft fixedly. New development on existing high-heeled shoes is achieved, the liftable detachable function is achieved, and the demands of most women are met.

Inventors

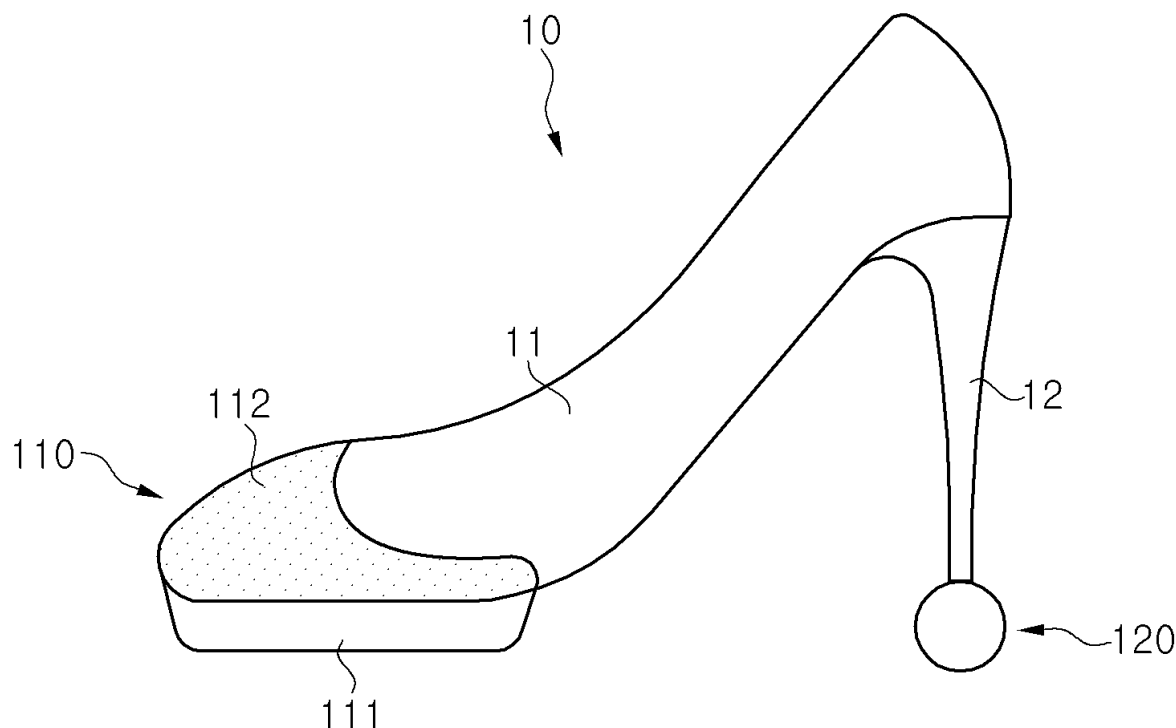
LIU LUOFA

Family 140/432 - FAMPAT - ©Questel

Title

(KR101489735)

Fashionable cushion accessory for high heel shoes

Images**Publication data including kind & date**[KR101489735](#)

B1 2015-02-04

KR101489735

[KR20140044519](#)

A 2014-04-15

KR20140044519

**Abstract**

(KR20140044519)

A decorative cushion accessory for high-heeled shoes of the present invention is detachably mounted to high-heeled shoes which comprise a shoe part worn on a foot and a high heel formed on the outsole of the rear of the shoe part. The decorative cushion accessory includes a shoes cover which is detachably worn on the front of the shoe part and a high heel cushion member which maintains a constant interval from the shoes cover and is detachably worn on the end of the high heel. The decorative cushion accessory allows a user to select various types of accessories and wear the selected accessory depending on the user's taste without changing the structure of existing high-heeled shoes and improves comfort of walking and improves the style thereof.

COPYRIGHT KIPO 2014

Inventors

JANG, MYUNG-HO

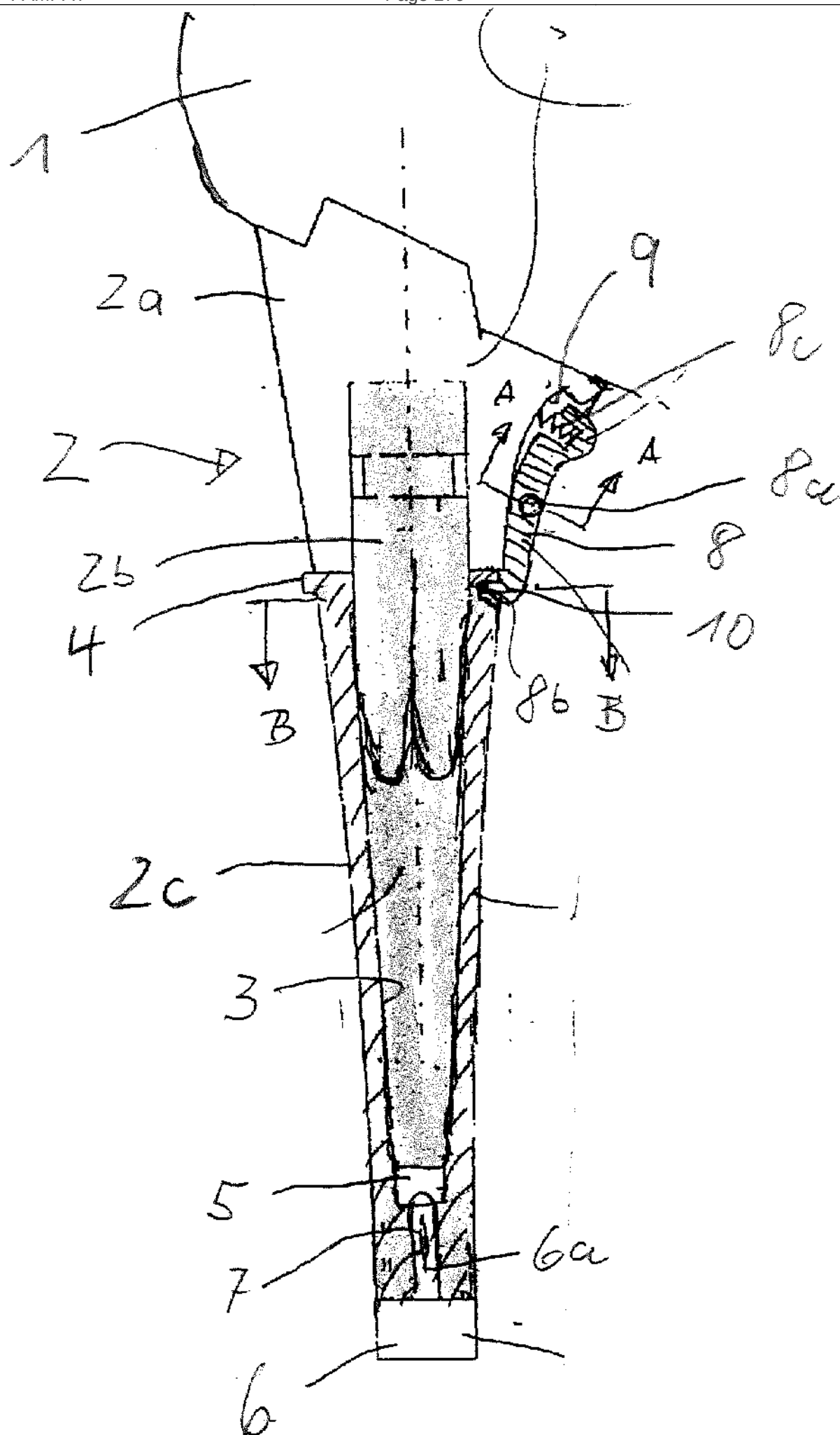
Family 141/432 - FAMPAT - ©Questel

Title

(DE202012103401)

Interchangeable Shoe Heel

Images



Publication data including kind & date[DE202012103401](#)

U1 2012-12-13

DE202012103401

**Abstract**

(DE202012103401)

Interchangeable shoe heel, or against a body of the shoe with the shoe body fixed heel portion attached, removable shoulder portion, wherein, the removable shoulder portion (2c) via a snap connection (8, 8b; 10, 11, 13, 11) and at least one body of the shoe heel portion fixed to the shoe body (2a, 2b) is attached.

Latest standardized assignees - inventors removed

LEIBER HEINZ

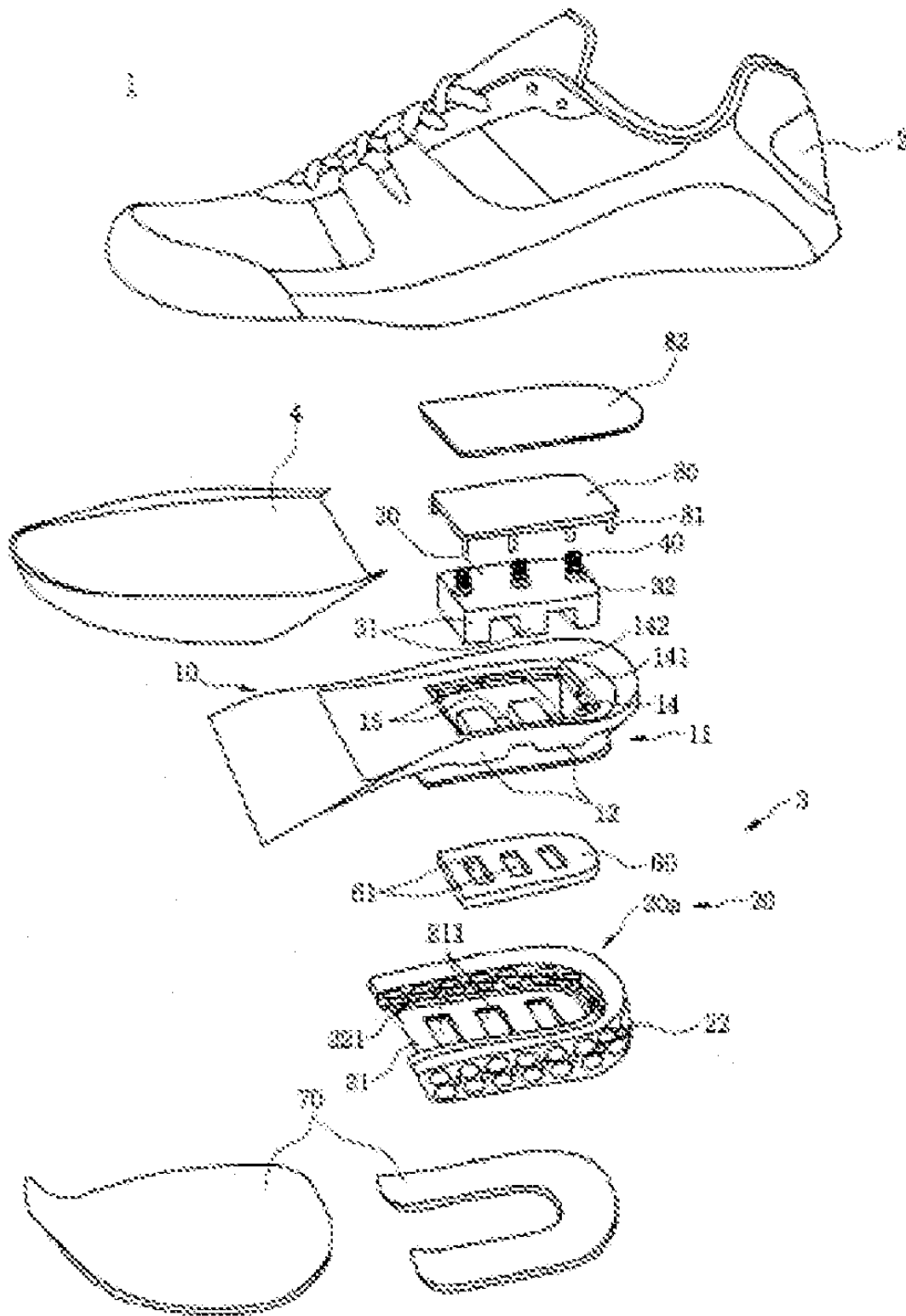
Family 142/432 - FAMPAT - ©Questel

Title

(WO201110807)

Dual impact absorbing shoe having easily replaceable heel

Images



Publication data including kind & date

US20120117824	A1	2012-05-17	US20120117824
KR101071083	B1	2011-10-13	KR101071083
WO2011/010807	A3	2011-04-21	WO201110807
WO2011/010807	A2	2011-01-27	WO201110807
KR20110008815	A	2011-01-27	KR20110008815



Abstract

(WO2011/010807)

A main object of the present invention is to enable anyone to replace a worn out or damaged heel simply by pulling out the heel and inserting a new heel without using a separate adhesive or workpiece and a fastening element during replacement

of the heel. Another object of the present invention is to securely hold a replaced heel and restrict the heel in horizontal, vertical and back-and-forth directions while in use to prevent separation and disengagement, thereby improving usability. Still another object of the present invention is to reduce shoe repair costs once a heel of the shoe is replaced and resolve any inconvenience and trouble involved in requesting repair by a shoe repair expert, thereby motivating customers to purchase shoes, as well as to increase the life of those shoes, thereby improving the economic value and be environmentally friendly..In particular, the present invention is adapted to running shoes since the heel has an airbag inserted therein and can absorb dual impact thereby enhancing the function of the shoes.

Inventors

KIM DEOK KI

Family 143/432 - FAMPAT - ©Questel

Title

(FR1260513)

Shoe heel

Publication data including kind & date[FR1260513](#)

A

1961-05-05

FR1260513

**Inventors**

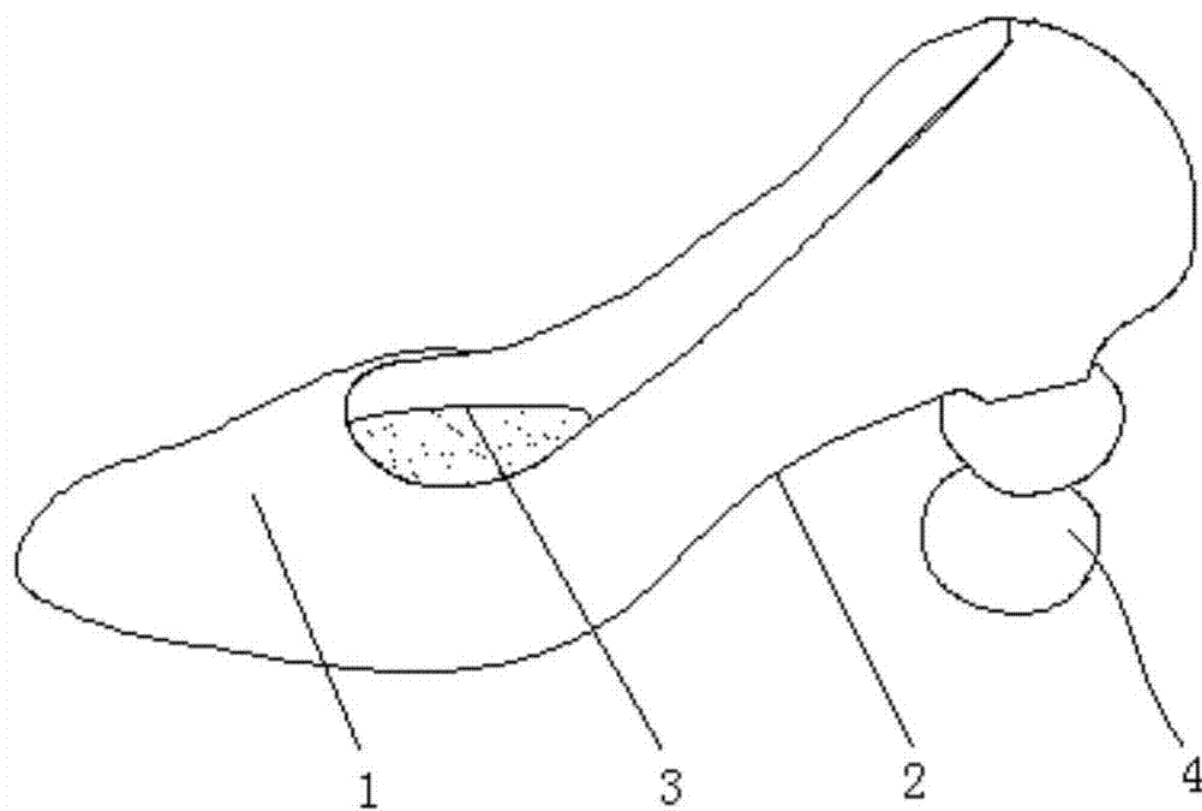
SCHMITT ALOIS

Family 144/432 - FAMPAT - ©Questel

Title

(CN109008059)

Detachable high-heeled shoe capable of sensing foot pressure

Images**Publication data including kind & date**[CN109008059](#)

A

2018-12-18

CN109008059

**Abstract**

(CN109008059)

The invention relates to a detachable high-heeled shoe capable of sensing foot pressure. The shoe comprises a shoe

upper and a shoe sole, the shoe upper is fixed to the shoe sole to form wearing space, and a foot supporting part, corresponding to the shoe sole, of the wearing space is provided with a swelling shoe pad; the swelling shoe pad comprises a pad body with a cavity, several supporting springs capable of longitudinally stretching and retracting are arranged in the cavity of the pad body, and a detachable shoe heel with the adjustable height is installed at the heelpiece part of the shoe sole. The swelling pad cooperates with the shoe heel with the adjustable height, the heel of the high-heeled shoe can be randomly adjusted according to the own need, and the using comfort is good.

Inventors

LI JING

YU HAIBIN

ZHANG RUI

Latest standardized assignees - inventors removed

QUANZHOU NORMAL UNIVERSITY

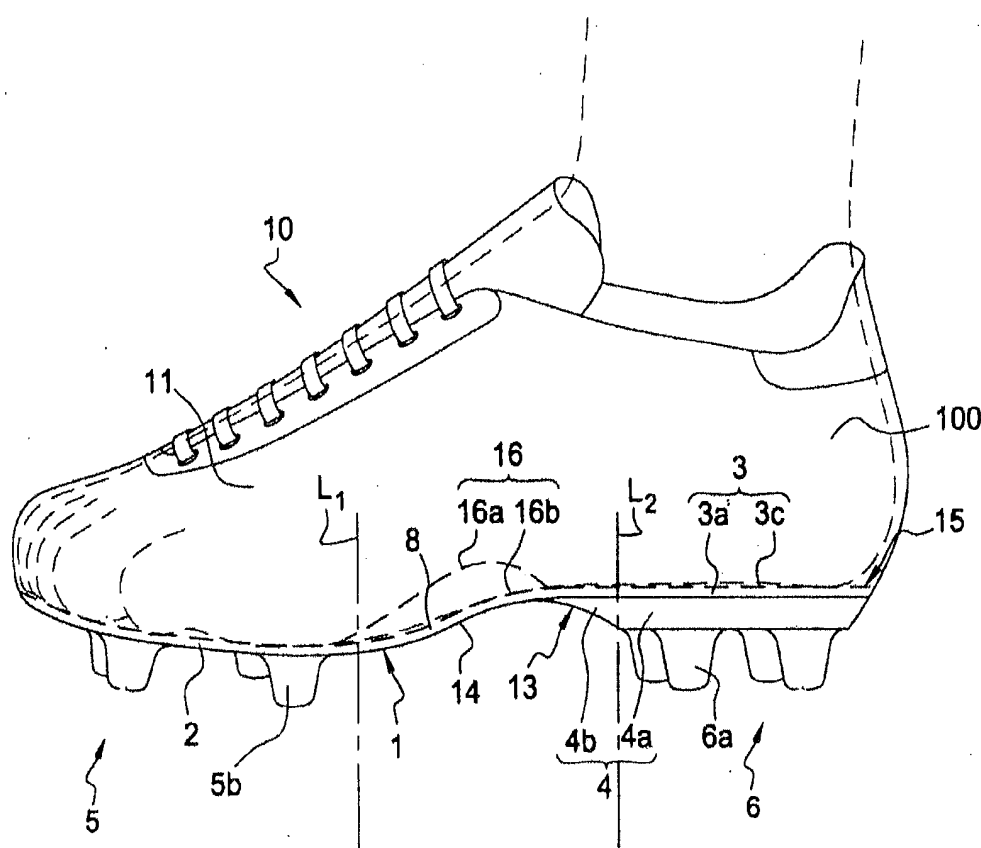
Family 145/432 - FAMPAT - ©Questel

Title

(US20170143072)

Sports shoe with studs

Images



Publication data including kind & date

[US20170143072](#)

A1 2017-05-25

US20170143072



Abstract

(US20170143072)

A sports shoe includes an instep and a rigid outer sole, the sole having a front portion including a first plurality of studs, a central portion, and a rear portion including a second plurality of studs. The rear portion includes a thickened portion with a

flat outer surface on which the second plurality of studs is located, the thickened portion raising the rear portion relative to the front portion; the central portion includes an inwardly curved outer profile.

Inventors

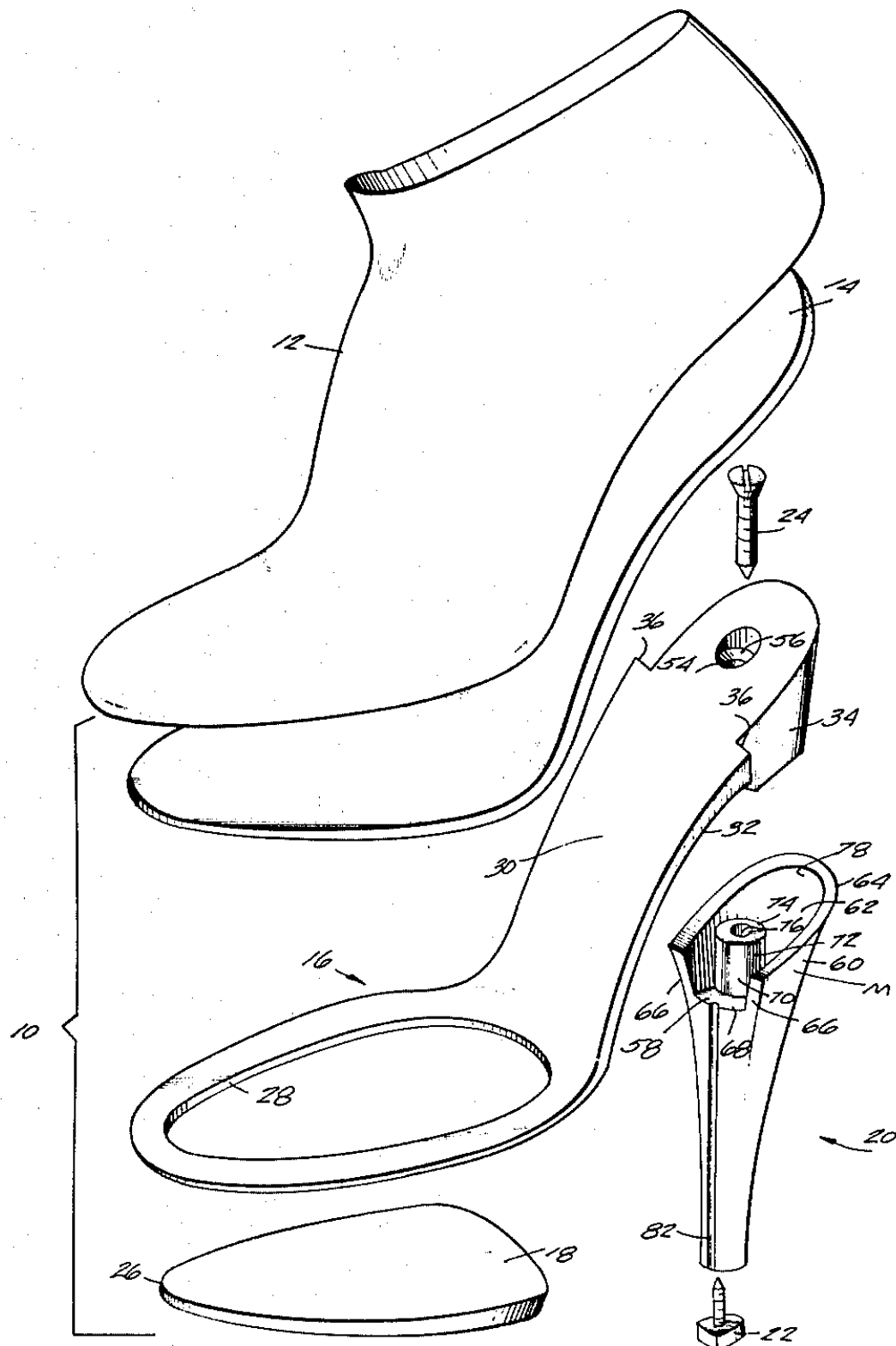
GUER JEAN LUC

Family 146/432 - FAMPAT - ©Questel

Title

(US4400893)

Shoe with removably-mounted heel

Images

Publication data including kind & date

CH655834	A5	1986-05-30	CH-655834
FR2512331	B1	1985-07-26	FR2512331
AR231904	A1	1985-04-30	AR-231904
ES273345	Y	1985-03-16	ES-273345Y
GB2105174	B	1984-10-10	GB2105174
GR75523	B	1984-07-26	GR--75523
ES273345	U	1984-01-16	ES-273345U
US4409745	A	1983-10-18	US4409745
US4400893	A	1983-08-30	US4400893
DE3203449	A1	1983-03-24	DE3203449
GB2105174	A	1983-03-23	GB2105174
FR2512331	A1	1983-03-11	FR2512331

**Abstract**

(US4400893)

A basic design of heel-needling shoe is provided having a sole member made of semi-rigid molded plastic material including a thickened heel stub or jack portion having a downwardly-tapering outer perimetrical sidewall extending about the back and the lateral sides, and a downwardly-opening cylindrically-walled centrally-located socket. The upper surface of the sole member overlying this thickened portion is preferably provided with a small-diameter opening axially communicating with the well. The upper end of the heel is provided with a centrally located axially upwardly projecting cylindrical boss, preferably centrally provided with an upwardly opening threaded bore. The boss is surrounded by a flat upper end surface. An upstanding flange extends about the back and sides of this end surface. The inner surface of this flange tapers to match the heel jack. The heel is disassembly assembled to the basic heel-needling shoe by inserting the heel boss into the jack socket and threading a screw through the sole opening into the boss bore. Two designs of shoe/heel visible interface are shown.

Inventors

MUSCI NICOLA

Latest standardized assignees - inventors removed

FRATELL MUSCI

FRATELLLI MUSCI

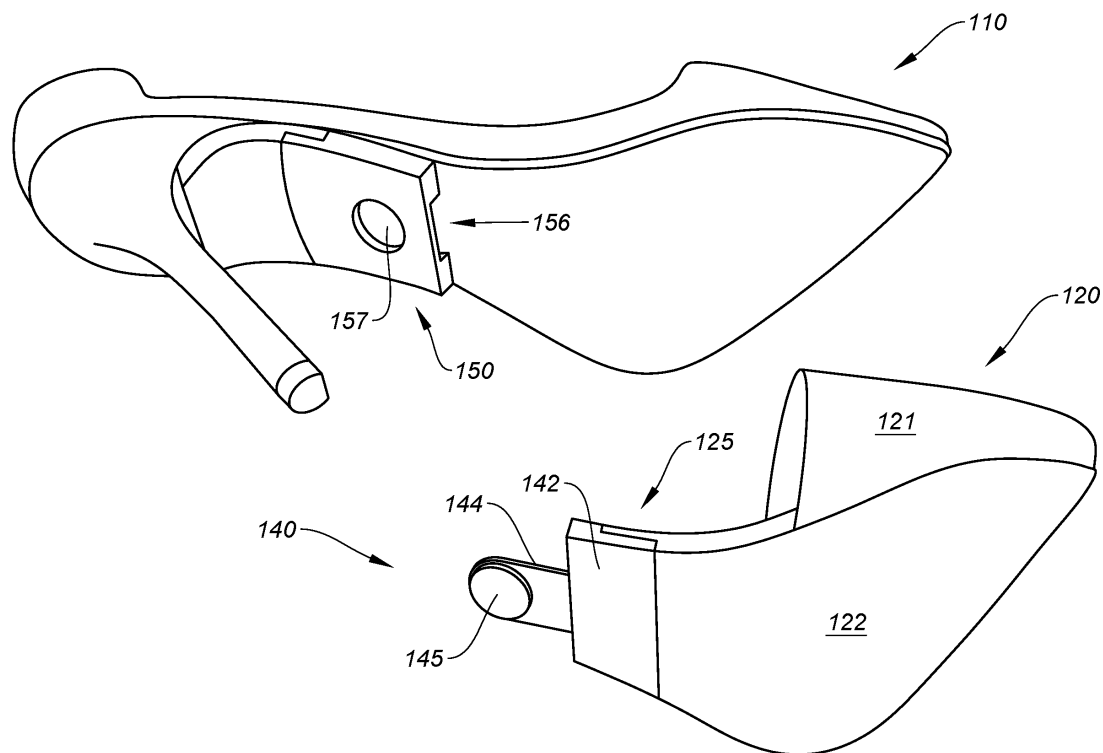
Family 147/432 - FAMPAT - ©Questel

Title

(US20180184752)

Replaceable sleeve system for shoe

Images

**Publication data including kind & date**[US20180184752](#)

A1 2018-07-05

US20180184752

**Abstract**

(US20180184752)

A replaceable cap sleeve system is described herein which remedies the cost of acquiring multiple pairs of footwear by providing flexibility to match apparel. The system includes a base shoe structure having only a projecting heel, an insole, an outsole, and an instep area between a toe area and heel area, a removable toe sleeve adapted to extend over at least a portion of the toe area and insole of the base shoe structure, but which is attached to the underside of the base shoe structure at a location on the outsole, and a separate, removable heel sleeve adapted to be fastened over the projecting heel of the base shoe structure. A completed shoe for wear is realized that covers toes of a wearer and supports the wearer's heel with the toe and heel sleeves installed on the base shoe structure.

Inventors

THEISEN KAREN E

THEISEN JOSEPH P

Family 148/432 - FAMPAT - ©Questel

Title

(WO2016115540)

Method of decoration shoes and decorated shoes

Images

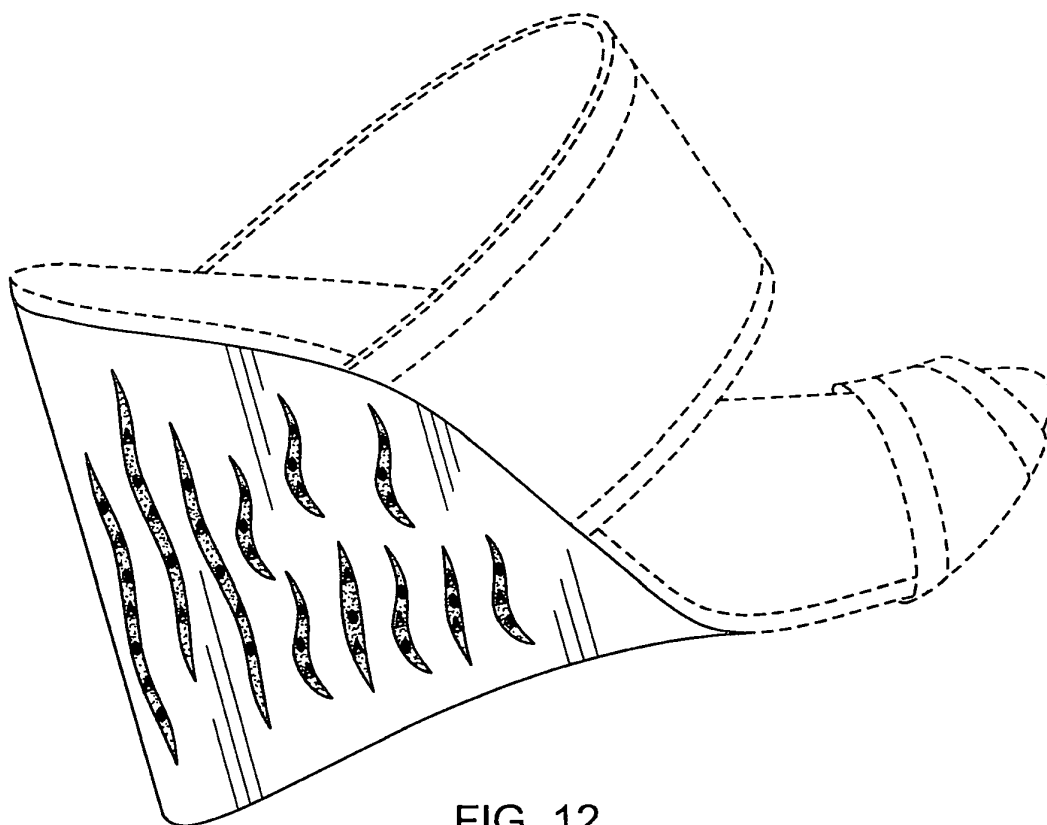


FIG. 12

Publication data including kind & date[WO2016/115540](#)

A1 2016-07-21

WO2016115540

**Abstract**

(WO2016/115540)

A decoration for a shoe element and a method of decorating a shoe element includes the steps of cutting a substrate to correspond to the shape of the shoe element and applying decorative elements to the substrate. Openings are cut in a protective cover to align with areas where the decorative elements are applied to the substrate. The protective cover and the substrate are aligned, including aligning the openings in the protective cover with the decorative elements on the substrate. In the process, the substrate is coupled to the protective cover to form a one piece, and the one piece is coupled to the shoe element. The decoration, once installed on the shoe, includes the substrate under the protective cover with raised decorative elements appearing through the openings.

Inventors

CHAMBERLAIN KARYN

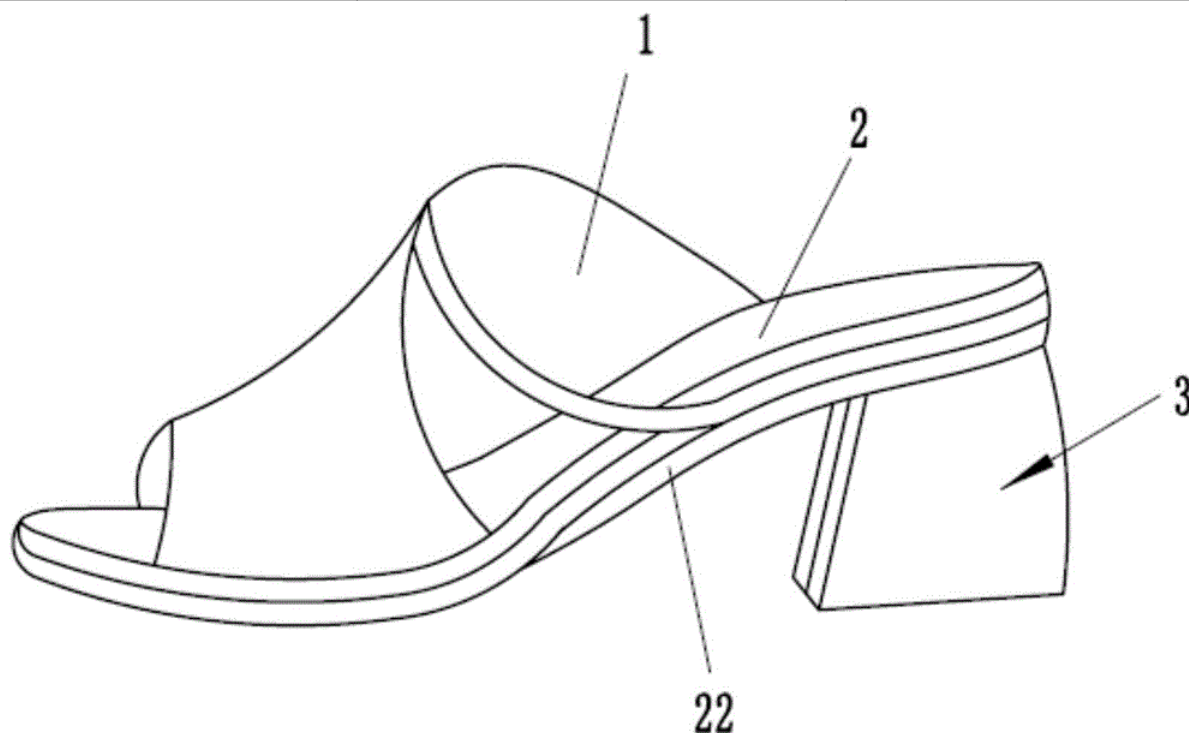
Family 149/432 - FAMPAT - ©Questel

Title

(CN108634472)

Dual-purpose slippers suitable for indoor and outdoor wearing

Images

**Publication data including kind & date**

CN108634472	B	2019-08-13	CN108634472B
CN108634472	A	2018-10-12	CN108634472

**Abstract**

(CN108634472)

The invention provides dual-purpose slippers suitable for indoor and outdoor wearing. Each dual-purpose slipper comprises a slipper sole and a slipper vamp arranged on the slipper sole, and further comprises a slipper heel detachably arranged at the lower side of the slipper sole, wherein a connecting post is detachably arranged at the lower end of a support layer of the slipper sole, the slipper heel comprises a left heel body, a right heel body and a protection bottom cover, the left heel body and the right heel body are buckled to the left and right sides of the connecting post and assembled to form an integrated structure, the protection bottom cover is buckled to the lower ends of the left heel body and the right heel body, the lower end of the left heel body is provided with a left bottom cavity, the lower end of the right heel body is provided with a right bottom cavity, and a locking mechanism capable of locking the left heel body and the right heel body is arranged in the left bottom cavity and the right bottom cavity. With the dual-purpose slippers suitable for indoor and outdoor wearing provided by the invention, the problems that the existing slippers are single in structure, and can not be detached randomly, and the style can not be randomly changed, are solved.

Inventors

ZHENG JINGDONG

Latest standardized assignees - inventors removed

QUANZHOU BAOFENG SHOES

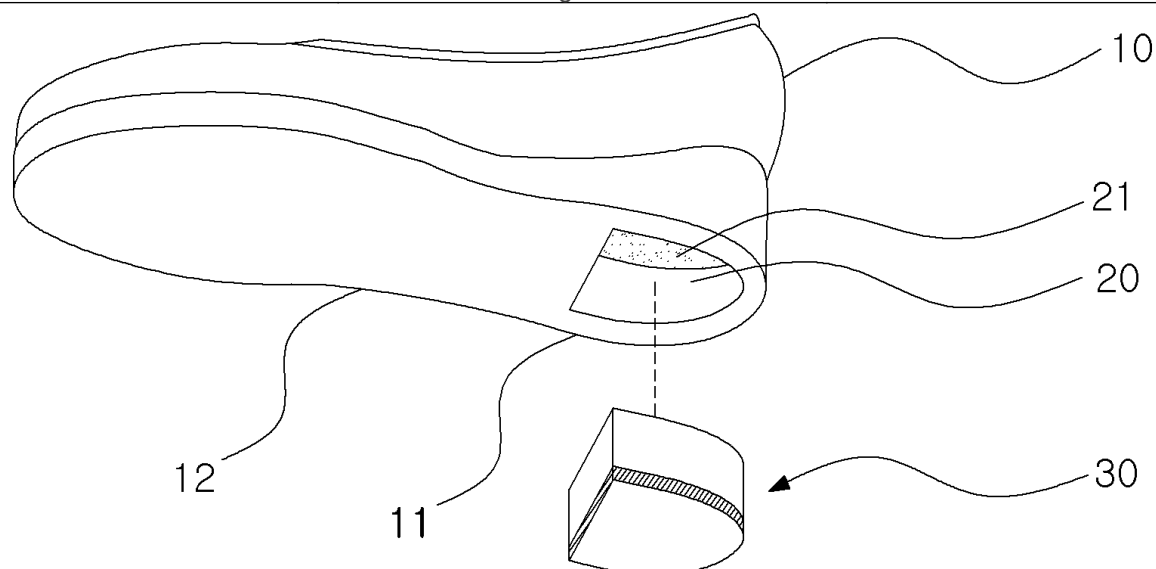
Family 150/432 - FAMPAT - ©Questel

Title

(KR101104756)

Shock-absorbing shoe

Images

**Publication data including kind & date**[KR101104756](#)

B1

2012-01-12

KR101104756

[KR20110103619](#)

A

2011-09-21

KR20110103619

**Abstract**

(KR20110103619)

PURPOSE: Shock-absorbing shoes are provided to maintain a shock absorbing effect for a long time through a complex shock absorbing method.

CONSTITUTION: Shock-absorbing shoes comprise a receiving groove(20) and a shock absorbing heel(30). The receiving groove is formed in the bottom surface of a heel(11) in a recess type. In the receiving groove, a first Velcro(21) is attached to the inner surface thereof in the direction facing an insole(12). The shock absorbing heel is made of an elastic material. The shock absorbing heel is detachably inserted into the receiving groove. To the upper side of the shock absorbing heel, a second Velcro combined with the first Velcro is attached. To the bottom surface of the shock absorbing heel, a supporting plate is attached.

COPYRIGHT KIPO 2012

Inventors

GO, JONG-TAEK

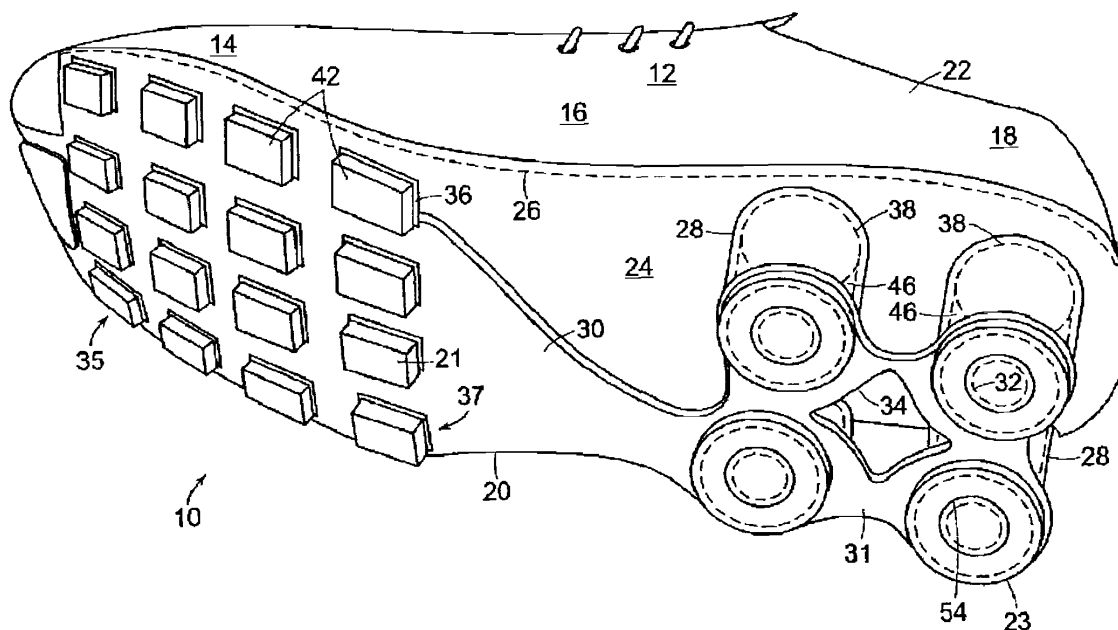
Family 151/432 - FAMPAT - ©Questel

Title

(WO2008109651)

Footwear with removable midsole having projections

Images



Publication data including kind & date

US7793428	B2	2010-09-14	US7793428
CN101258956	B	2010-06-02	CN101258956B
WO2008/109651	A1	2008-09-12	WO2008109651
US20080216360	A1	2008-09-11	US20080216360
CN101258956	A	2008-09-10	CN101258956



Abstract

(WO2008/109651)

An article of footwear includes an upper and an upper plate secured to the upper and having a plurality of apertures formed therein. A removable midsole has a plurality of projections extending from a lower surface thereof, with each projection extending through one of the apertures of the upper plate.

Inventors

SCHENONE DAVE

Latest standardized assignees - inventors removed

NIKE

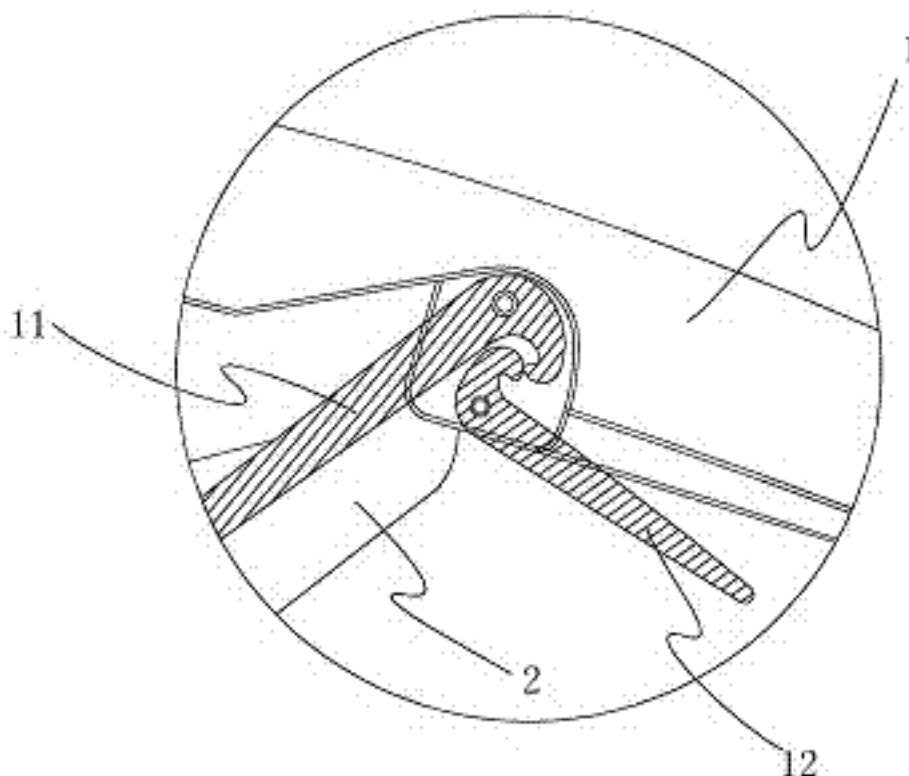
Family 152/432 - FAMPAT - ©Questel

Title

(CN106820420)

Shoes with replaceable heels

Images



Publication data including kind & date

CN106820420	B	2018-08-03	CN106820420B
CN106820420	A	2017-06-13	CN106820420



Abstract

(CN106820420)

The invention relates to a pair of shoes. Multiple shoe heels different in height and shape can be combined on one pair of shoes, and the pair of shoes with replaceable heels can meet various occasional demands. The pair of shoes comprises shoe soles, vamps arranged on the shoe soles and shoe heels, wherein locking devices are arranged on the lower surfaces of the shoe soles and comprise heelpiece fixing parts and locking parts, the connecting ends of the heelpiece fixing parts are in rotatable connection with the shoe soles through first hinge connecting shafts, the connecting ends of the locking parts are in rotatable connection with the shoe soles through second hinge connecting shafts, the second hinge connecting shafts are located below the first hinge connecting shafts and are further sleeved with torsion springs, one end of each torsion spring is connected with the corresponding shoe sole, the other end of each torsion spring is connected with the corresponding locking part, and meshed connection between the connecting ends of the heelpiece fixing parts and the connecting ends of the locking parts is achieved through claw structures. The shoe heels are provided with insertion grooves for the heelpiece fixing parts to be inserted, the connecting faces, connected with the shoe soles, of the shoe heels are provided with fastener parts, and the shoe soles are provided with clamping grooves matched with the fastener parts.

Inventors

ZHUANG WEIZHI
 ZHENG RONGDA
 DING SIEN
 ZHENG YIWEN
 ZHUANG HONGBIN

Latest standardized assignees - inventors removed

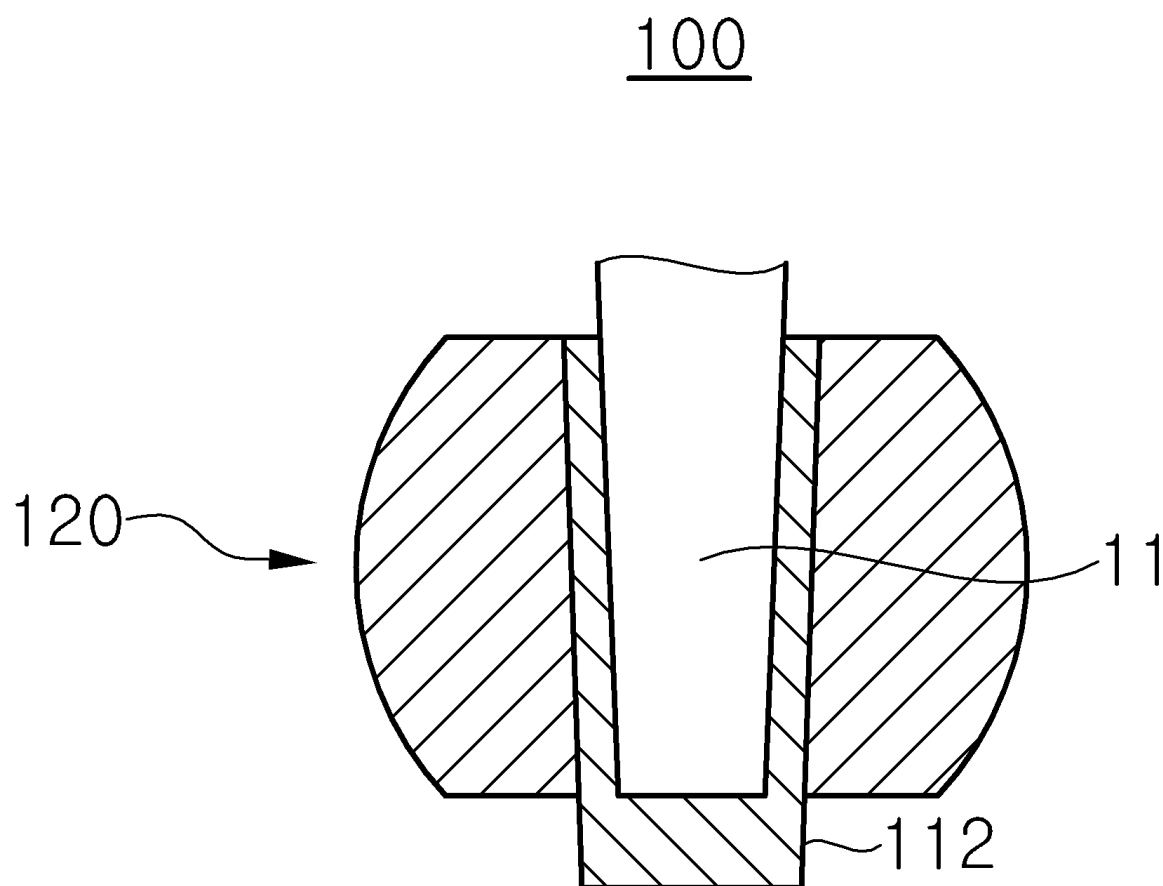
MAOTAI SOLES

Family 153/432 - FAMPAT - ©Questel

Title

(KR20150088451)

Accessory for high-heeled shoes and method for manufacturing same

Images**Publication data including kind & date**[KR20150088451](#)

A

2015-08-03

KR20150088451

**Abstract**

(KR20150088451)

The present invention relates to an accessory for high-heeled shoes, which is used by being inserted into high heels of shoes. The accessory for high-heeled shoes can be generally applied to conventional high-heeled shoes without causing structural deformation of the high heels, thereby being conveniently used as a cushion as well as for fashion.

COPYRIGHT KIPO 2015

Inventors

JANG, MYUNG-HO

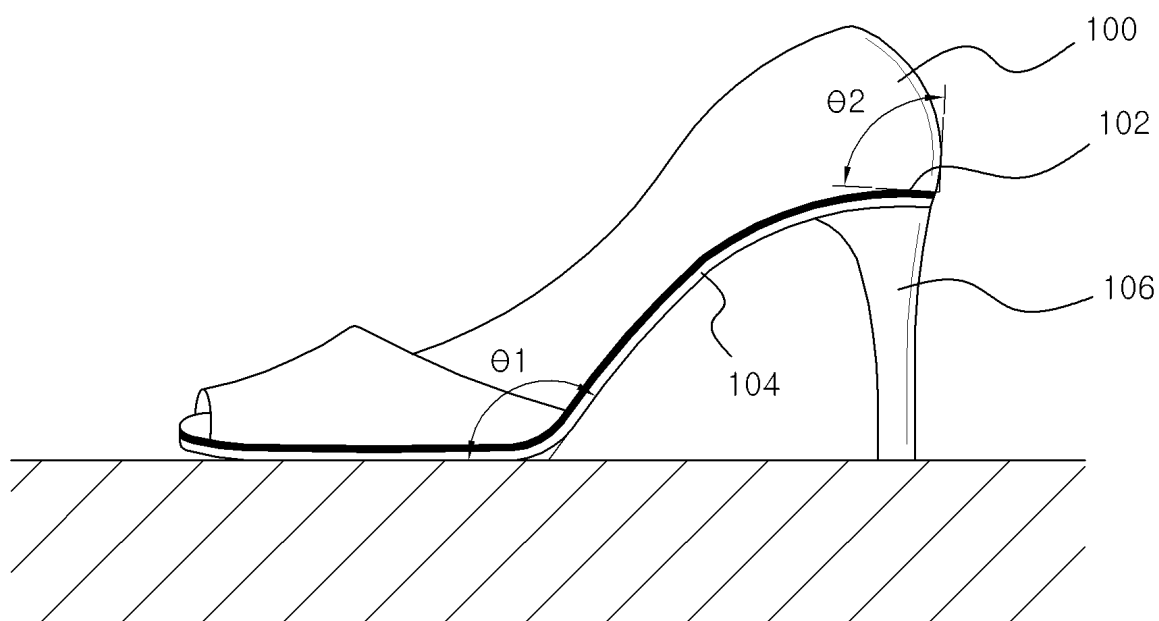
Family 154/432 - FAMPAT - ©Questel

Title

(KR101314730)

Shoes

Images

**Publication data including kind & date**[KR101314730](#)

B1 2013-10-08 KR101314730

[KR20120007921](#)

A 2012-01-25 KR20120007921

**Abstract**

(KR20120007921)

PURPOSE: Shoes are provided to enable a user to use shoes in various purposes by changing heel of shoes in various shapes.

CONSTITUTION: Shoes comprise: uppers of leather(100) which cover a foot; an upper outsole(102) which is fixed to the lower part of the uppers of leather; a lower outsole(104) which is combined with the upper outsole; and a heel(106) which is detachably combined with the lower outsole. The front of the upper outsole supporting the uppers of leather has an angle guiding the plantar. The rear of the upper outsole has an angle guiding the heel.

COPYRIGHT KIPO 2012

Inventors

LEE, JEONG SEON

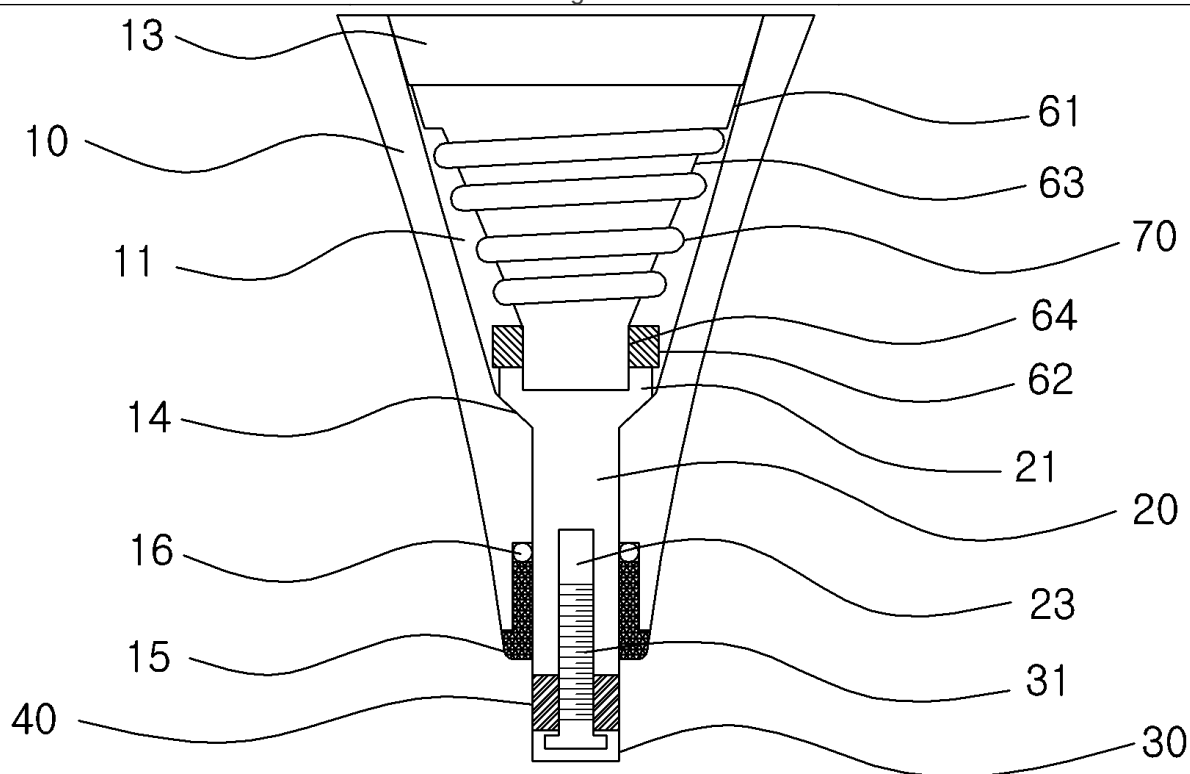
Family 155/432 - FAMPAT - ©Questel

Title

(KR100975053)

Shock-absorbing high-heeled shoes for height control capable of absorbing shock in two stages

Images

**Publication data including kind & date**[KR100975053](#)

B1 2010-08-11

KR100975053

**Abstract**

(KR100975053)

PURPOSE: A shock-absorbing high-heeled shoes for height control is provided, which enables a user to comfortably walk and can maintain buffering effect.

CONSTITUTION: A shock-absorbing high-heeled shoes for height control comprises: a heel(10) which is attached to the rear bottom surface of the high-heeled shoes and in which first and second holes are formed; a piston rod(20) which is inserted into the second hole and includes flange in the top; a shock-absorbing block equipped with an elastic body of the elastic material and a compressed spring; a supporting plate(30) equipped with an insertion bar to be projected upward; and a height control member.

COPYRIGHT KIPO 2010

Inventors

GO, JONG-TAEK

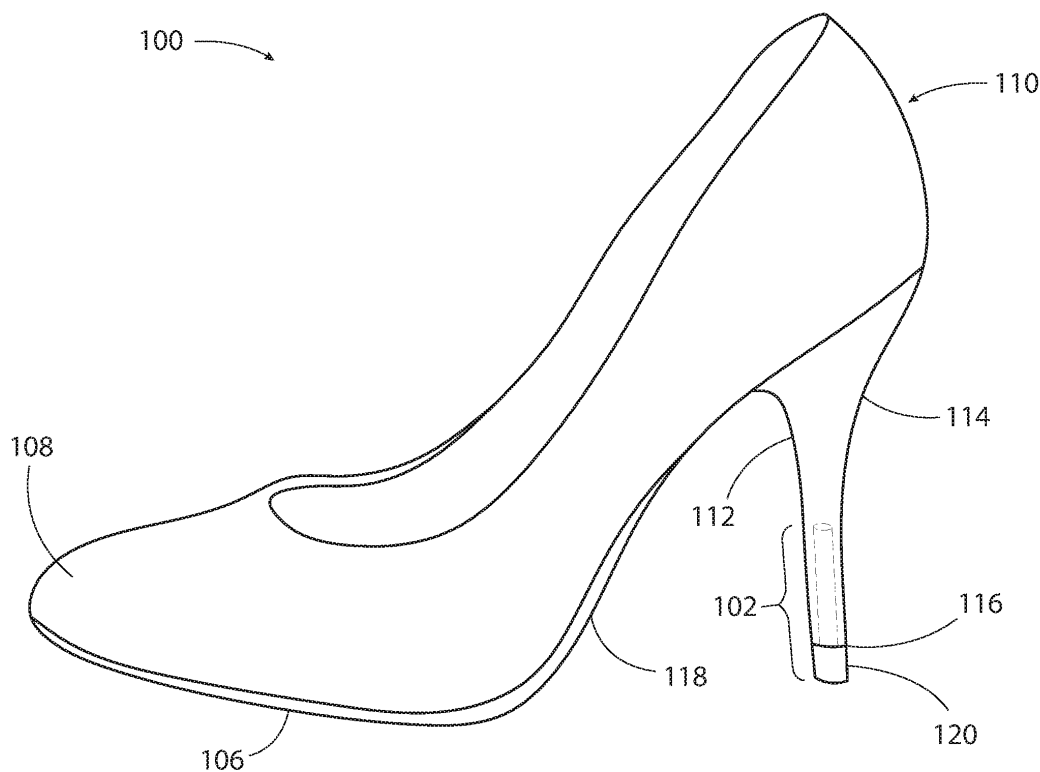
Family 156/432 - FAMPAT - ©Questel

Title

(US20180295938)

Heel tip cushion with anchoring mechanism inside heel stem

Images

**Publication data including kind & date**

US20190029367	A1	2019-01-31	US20190029367
US20180295938	A1	2018-10-18	US20180295938

**Abstract**

(US20180295938)

A high heel footwear including a top lift having any one or more of a securing feature, an anti-rotation feature, an alignment feature, and a cushioning feature. The securing feature secures the top lift to the heel of the footwear so that during usage, the top lift remains securely in place against the heel stem. The anti-rotation feature prevents rotation of the top lift relative to the heel, particularly when a twisting force is applied to the top lift by the footwear wearer. The alignment feature co-aligns the top lift to the heel, a particularly useful feature when the heel has an irregular or non-regular cross-section. A cushioning feature is also provided, for example, in the form of a honeycomb structure composed of a tire tread material and/or a top composed of a tire tread material having a tire tread pattern for added grip and traction.

Inventors

YANGAS ANGELA M

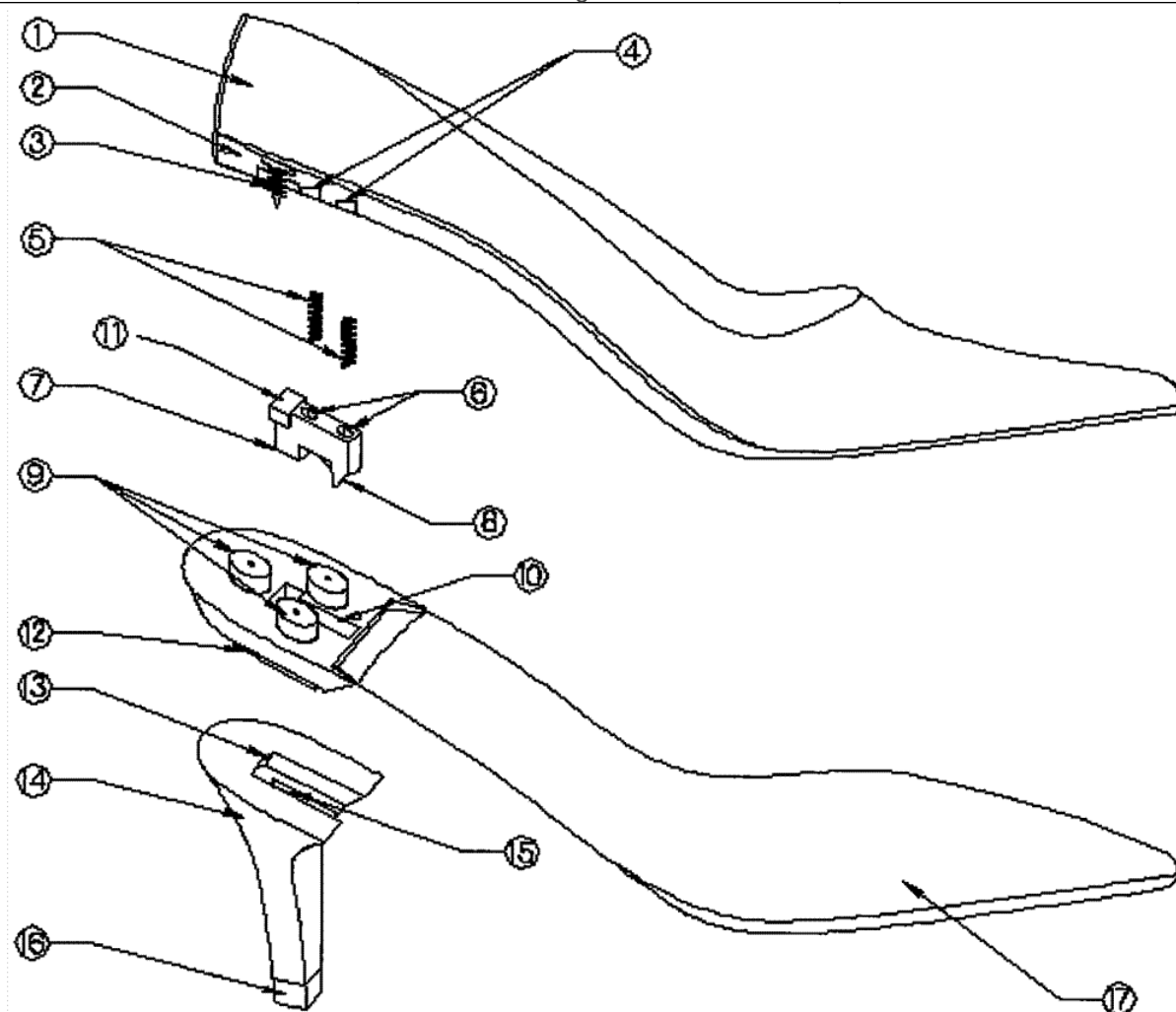
Family 157/432 - FAMPAT - ©Questel

Title

(CN108236161)

Heel-replaceable shoe with door-shaped heel pin

Images

**Publication data including kind & date**

CN108236161

A

2018-07-03

CN108236161

**Abstract**

(CN108236161)

The invention relates to a heel-replaceable shoe with a door-shaped heel pin. The shoe comprises a shoe surface and an insole integrated with the shoe surface, a base piece is arranged below the insole, a detachable heel is arranged below the base piece, a mounting slot running through the base piece is formed in a heelpiece of the base piece, a heel pin slot corresponding to the mounting slot up and down is formed in the upper part of the heel, the door-shaped heel pin is arranged on the mounting slot, a fixed pin is arranged at one end of the heel pin, and a heel dismounting button is arranged at the other end of the heel pin; when the heel pin is mounted in the mounting slot, the fixed pin extends into the heel pin slot, and the heel dismounting button extends out of the heel; and springs for elastically pressing the heel pin are arranged above the heel pin. The heel-replaceable shoe has the beneficial effects that the structure is simple, the operation is convenient, and the production cost is greatly lowered.

Inventors

XIAO SHUNCAI

HUANG XIAOYU

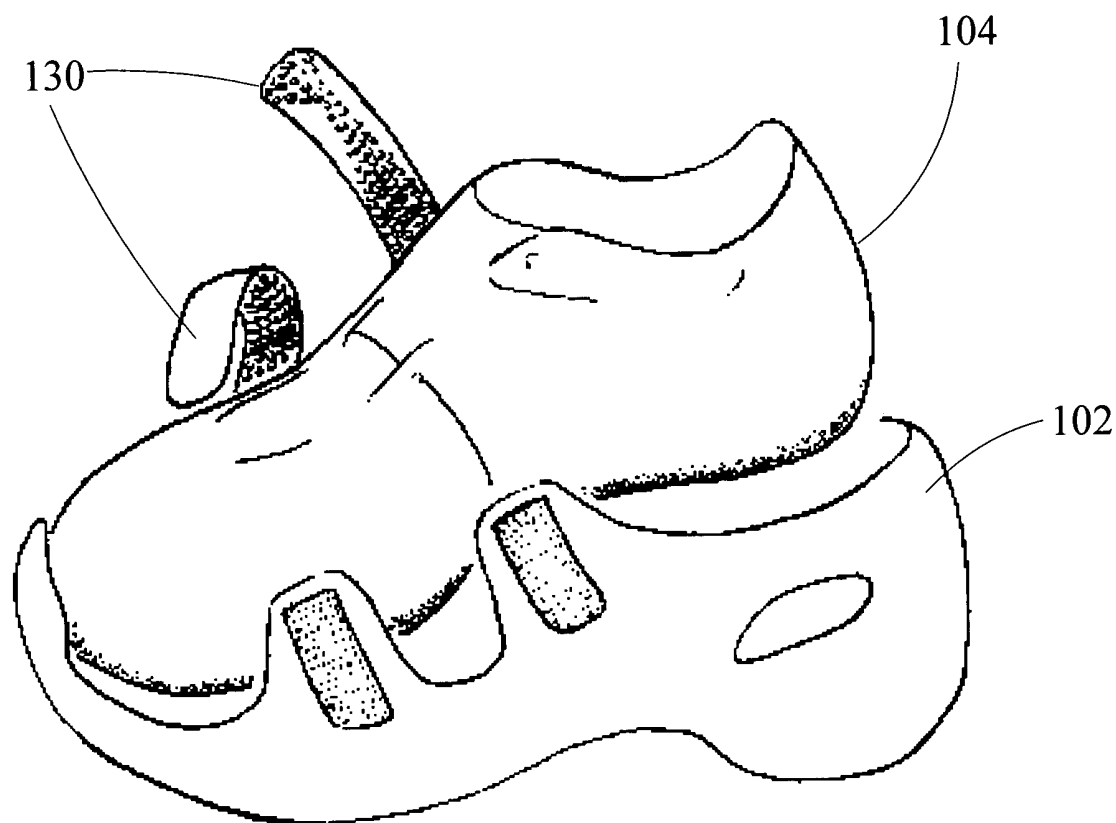
Family 158/432 - FAMPAT - ©Questel

Title

(WO200437029)

Interchangeable footwear comprising multiple shoe inserts

Images

100**Publication data including kind & date**

US7591084	B2	2009-09-22	US7591084
US20080229614	A1	2008-09-25	US20080229614
AU2002335779	A1	2004-05-13	AU2002335779
WO2004/037029	A1	2004-05-06	WO200437029
CA2498564	A1	2004-05-06	CA2498564

**Abstract**

(WO2004/037029)

An article of footwear of interchangeable nature allowing different use, appearance and configuration; comprising an outer sole of unitary construction having a united toe, central and heel portion. The central portion unites toe and heel portion by an arch supporter. The top sole sits upon the toe, central and heel portion making it one unit. This outer sole can be used as a shoe itself (sandal) or as the sole for other transformations. Two bands can attach around the toe and ankle portion. The ankle portion is also attached to a heel supporter that curves around the shoe's upper back. Various types of footwear elements can be inserted into/ver the outer sole, allowing conversion of the footwear into a sports', formal, sandal, water, slipper, dress, ornamented shoe or other footwear. This invention features heels whose height may be adjusted pursuant to its intended use and for comfort, firmness or softness.

Inventors

SANTA ANA ROLAND C

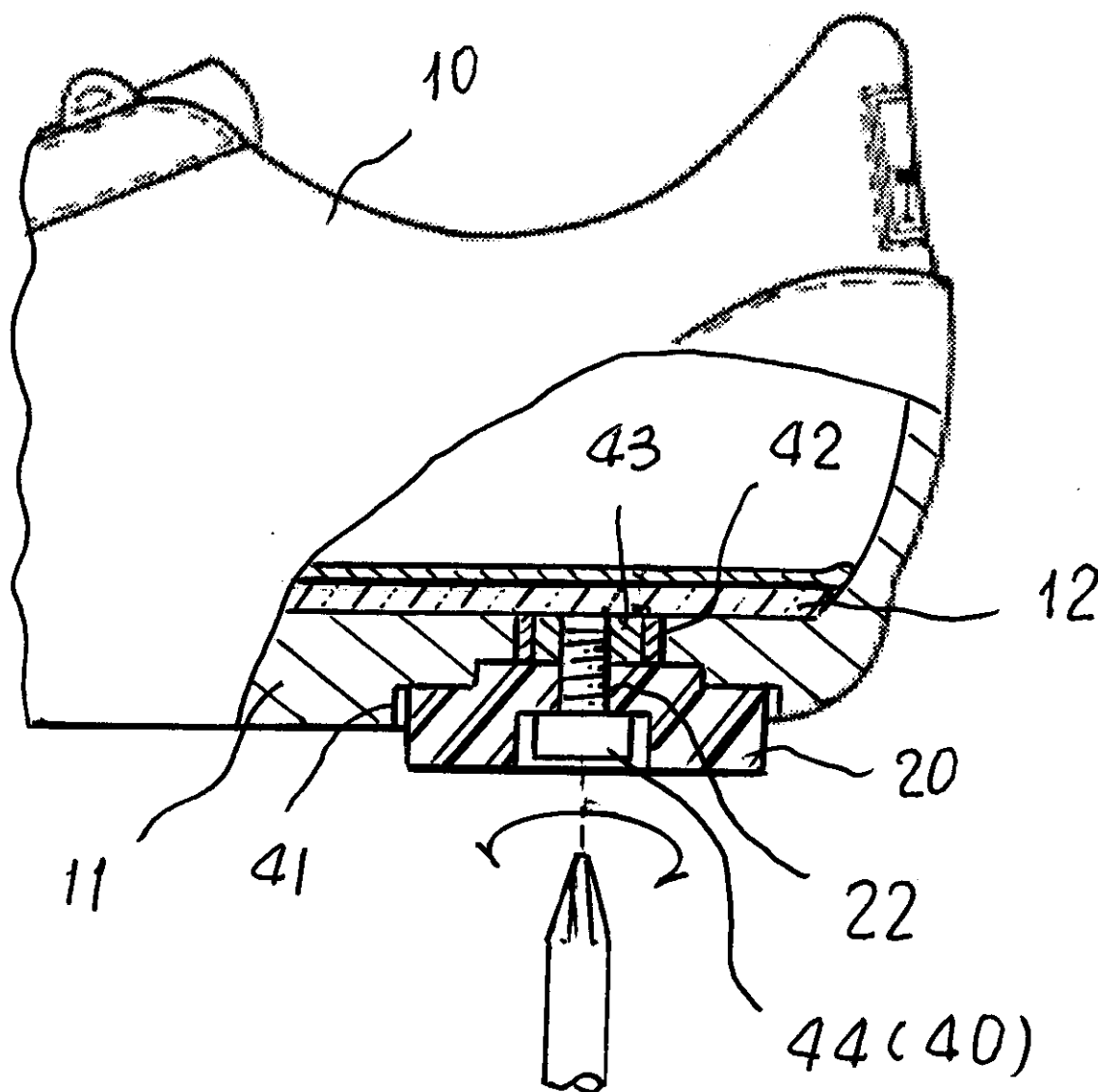
Family 159/432 - FAMPAT - ©Questel

Title

(WO2014198257)

Shoe and shoe set

Images

**Publication data including kind & date**

KR20100105952

A

2010-10-01

KR20100105952

**Abstract**

(KR20100105952)

PURPOSE: Footwear capable of position change of pads is provided, which enables a consumer to easily change the position of a worn pad and reduces economic damage due to the frequent replacement of pads.

CONSTITUTION: Footwear capable of position change of pads comprises: a resin outsole(11) equipped in the bottom surface of the footwear; a wear pad(20) which is accepted to be projected more than the bottom surface of the outsole; and a fixing member(40) which is rotationally and selectively released. In the fixing member, a fixture into which a screwnut is inserted is fixed to the outsole. A fastening bolt passing through the through-hole of the wear pad is fixed or released by being coupled with the screwnut.

COPYRIGHT KIPO 2011

Inventors

PARK, JI YEON

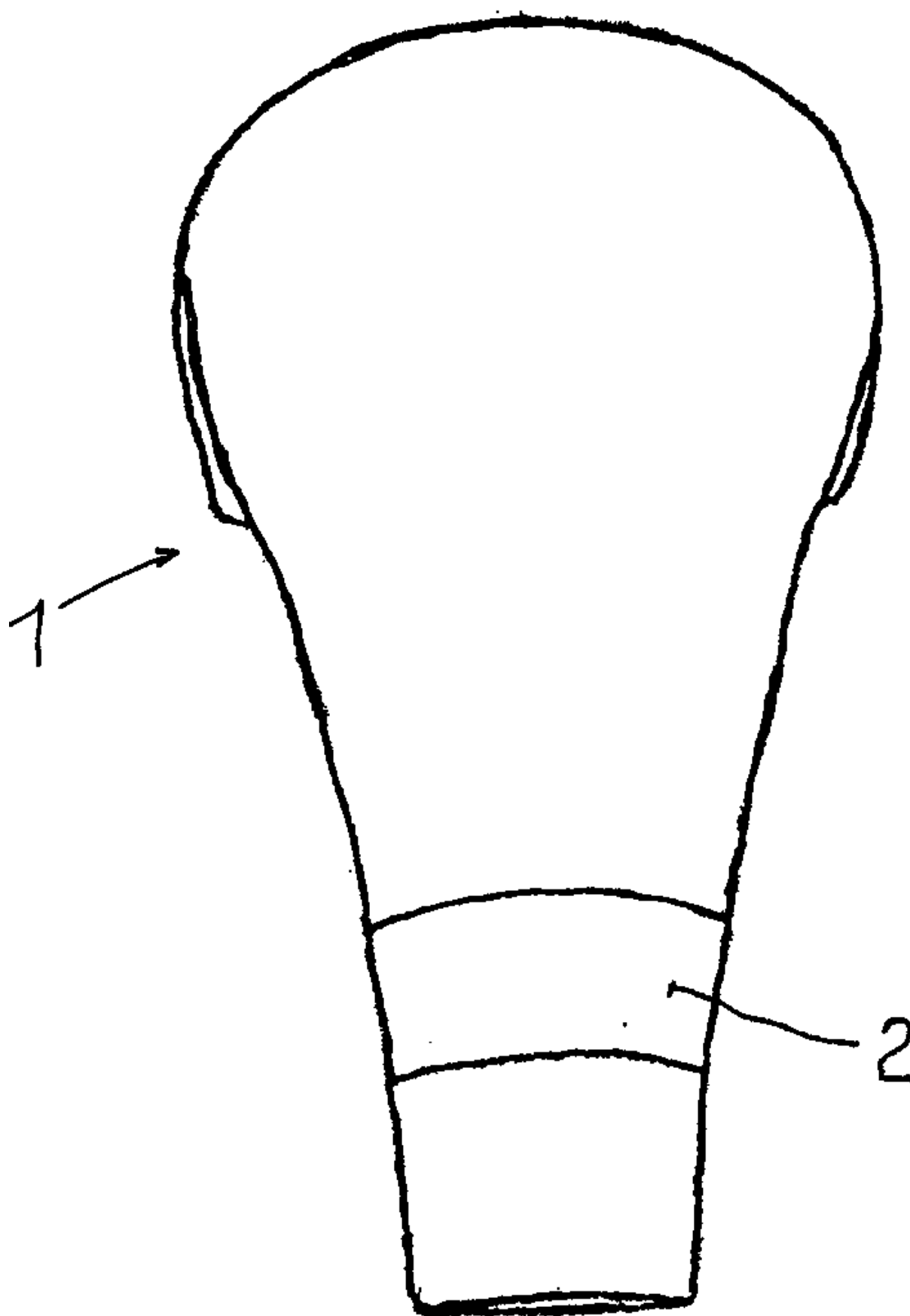
Family 161/432 - FAMPAT - ©Questel

Title

(DE202008014156)

Shoe or boot-section

Images

**Publication data including kind & date**[DE202008014156](#)

U1 2010-03-11

DE202008014156

**Abstract**

(DE202008014156)

Shoe or boot-section, in particular lady's shoe or boot-shoulder, characterized in, that it has a seat for (4) a replaceable

application (2).

Latest standardized assignees - inventors removed

KIEFER CHRISTIAN

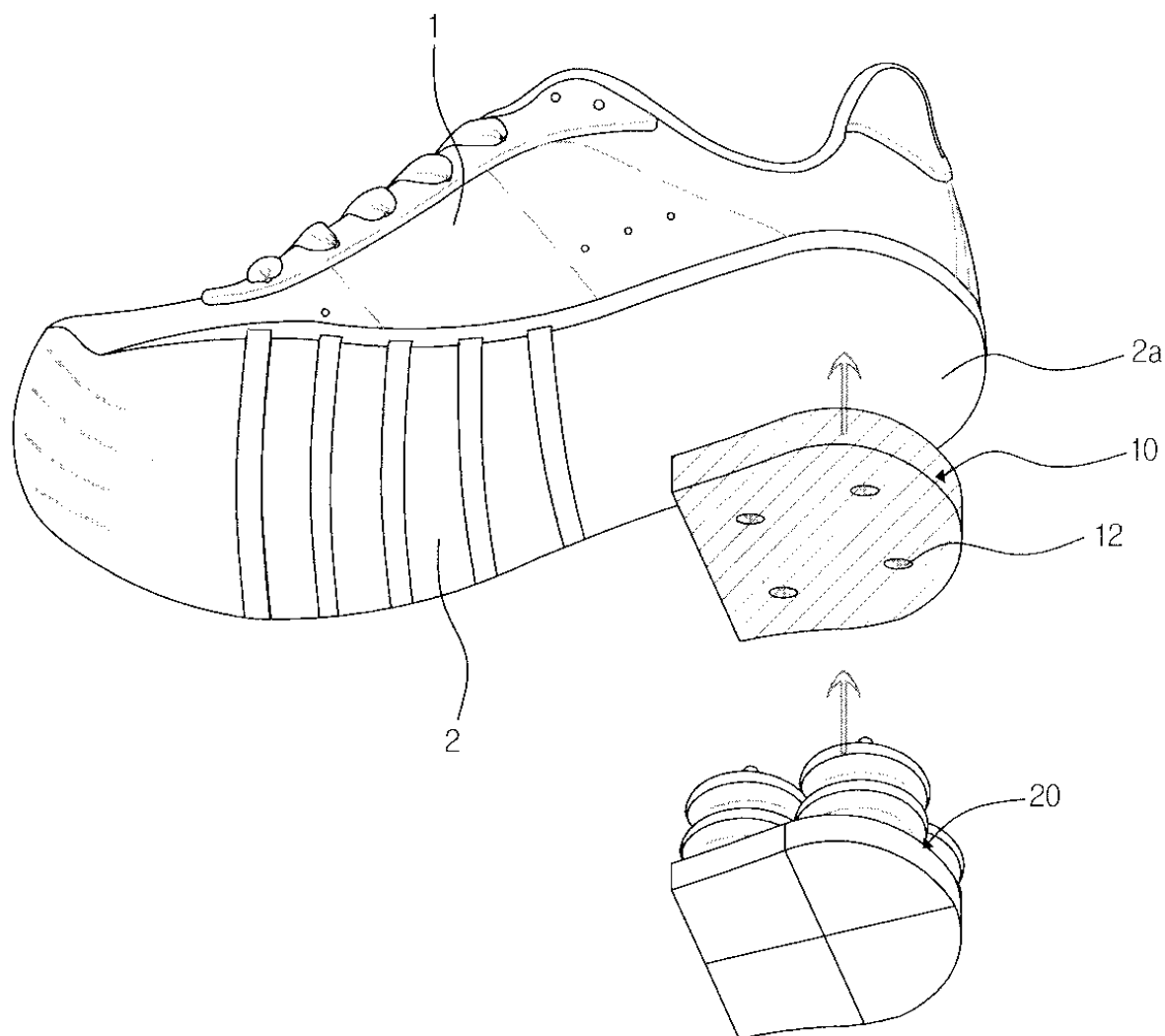
Family 162/432 - FAMPAT - ©Questel

Title

(KR100745137)

The shoes having a heel having the other elastic force and abrasion resistance

Images



Publication data including kind & date

[KR100745137](#)

B1 2007-07-26 KR100745137



Abstract

(KR100745137)

Shoes having an assembly heel body are provided to reduce a shock against the ground by buffering and dispersing a body load transferred to a foot, and to prevent partial abrasion of the heel by selectively assembling a most suitable heel body according to a wearer's weight or partial abrasion. Shoes having an assembly heel body include: a connection member(10) mounted on a heel part(2a) of a sole(2); and a heel body(20) detachably mounted on a lower part of the connection member, and formed in a compound of plural heel blocks that have individually different rebound resilience and abrasion resistance. The connection member has a connection part(12) for fastening the heel body. The heel body is selectively compound and easily changed.

Inventors

AHN, KWANG WOO

Family 163/432 - FAMPAT - ©Questel

Title

(CN107173915)

Serviceable heels with high abrasion resistance

Publication data including kind & date[CN107173915](#)

A

2017-09-19

CN107173915

**Abstract**

(CN107173915)

The invention discloses serviceable heels with high abrasion resistance, relates to the field of shoes and particularly discloses shoes with heels. A lot of people have pigeon-toed and toe-out habits, so that the heels, especially the heels of shoes are seriously worn, thereby being necessary to strengthen the wear resistance of the existing heels. The invention aims at providing the serviceable heels with high abrasion resistance. In order to achieve the target, the serviceable heels comprise a left heel and a right heel, wherein the left heel and the right heel are the same in structure; a locating groove is attached to the bottom surface of the left heel; an automotive thick rubber sheet with high abrasion resistance is detachably arranged in the locating groove; a nested groove is attached in each heel; a spare automotive thick rubber sheet with high abrasion resistance, which is matched with the automotive thick rubber sheet with high abrasion resistance, is arranged in the nested groove; and the automotive thick rubber sheet with high abrasion resistance is matched with the spare automotive thick rubber sheet with high abrasion resistance in shape and size. The serviceable heels have the advantage of better abrasion resistance.

Inventors

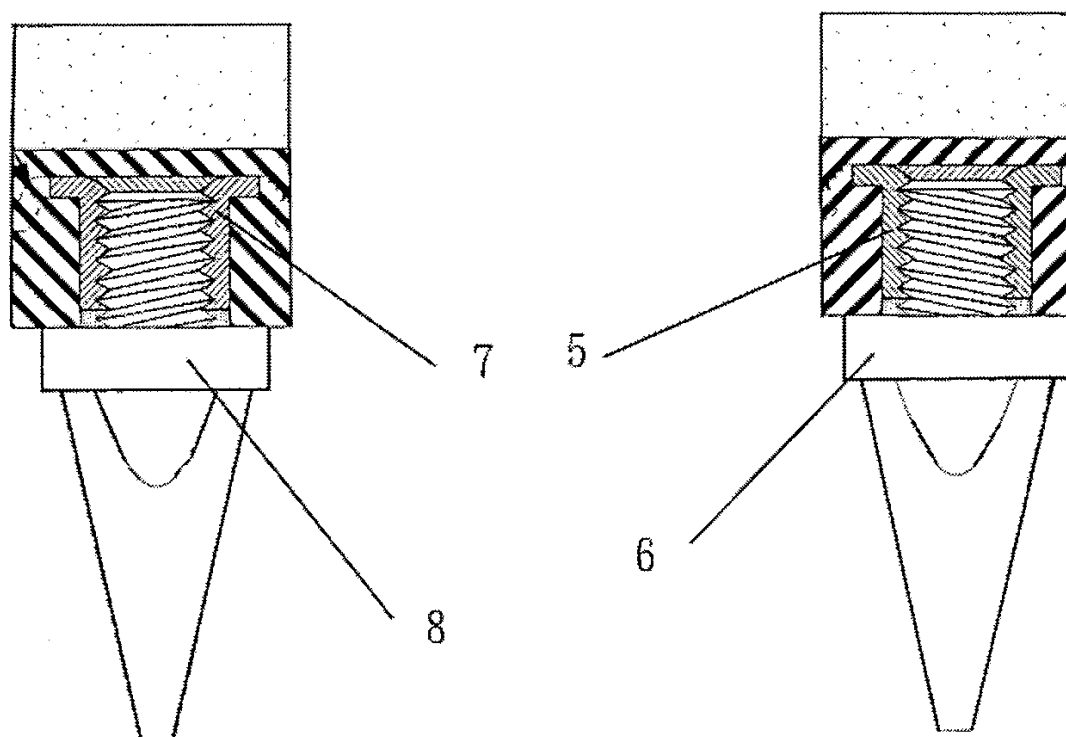
LI XIN

Family 164/432 - FAMPAT - ©Questel

Title

(EP2976959)

Method of locking spiked shoes using effect of inertia

Images**Publication data including kind & date**

EP2976959	B1	2019-04-17	EP2976959				
JP6253758	B2	2017-12-27	JP6253758				
US9681707	B2	2017-06-20	US9681707				
RU2620745	C2	2017-05-29	RU2620745				
RU2015144558	A	2017-04-24	RU2015144558				
EP2976959	A4	2016-12-21	EP2976959				
IN3017/MUMNP/2015	A	2016-06-03	IN2015MN03017				
JP2016512769	A	2016-05-09	JP2016512769				
US20160120266	A1	2016-05-05	US20160120266				
KR20160016767	A	2016-02-15	KR20160016767				
EP2976959	A1	2016-01-27	EP2976959				
CN104055277	B	2015-09-23	CN104055277B				
WO2014/146535	A1	2014-09-25	WO2014146535				
CN104055277	A	2014-09-24	CN104055277				

Abstract

(EP2976959)

A method for securing studded shoes by using the effect of inertia, wherein a studded shoe, comprising a structure of stud and receptacle combination, the stud including a ground-engaging part. The stud and the receptacle are adapted to be secured together by a threaded connection comprising a bolt (6, 8) on one of the components of the stud and a threaded socket (5, 7) on the receptacle, both adapted such that said bolt (6, 8) can be driven into said threaded socket (5, 7). A securing means of the components serves to become inter-engaged at least when the bolt (6, 8) is fully driven into the threaded socket (5, 7) to resist unscrewing of the components. The securing means comprises at least one locking accessory that fastens in the counterclockwise direction, in an arrangement such that the direction of torque formed by the direction of the inertia in wearer's shoe sole and the center of the threaded connection, and the relative number and/or position of the threads of the threaded connection determine the position and locking direction of the stud relative to the receptacle.

Inventors

HUANG YING-CHUN

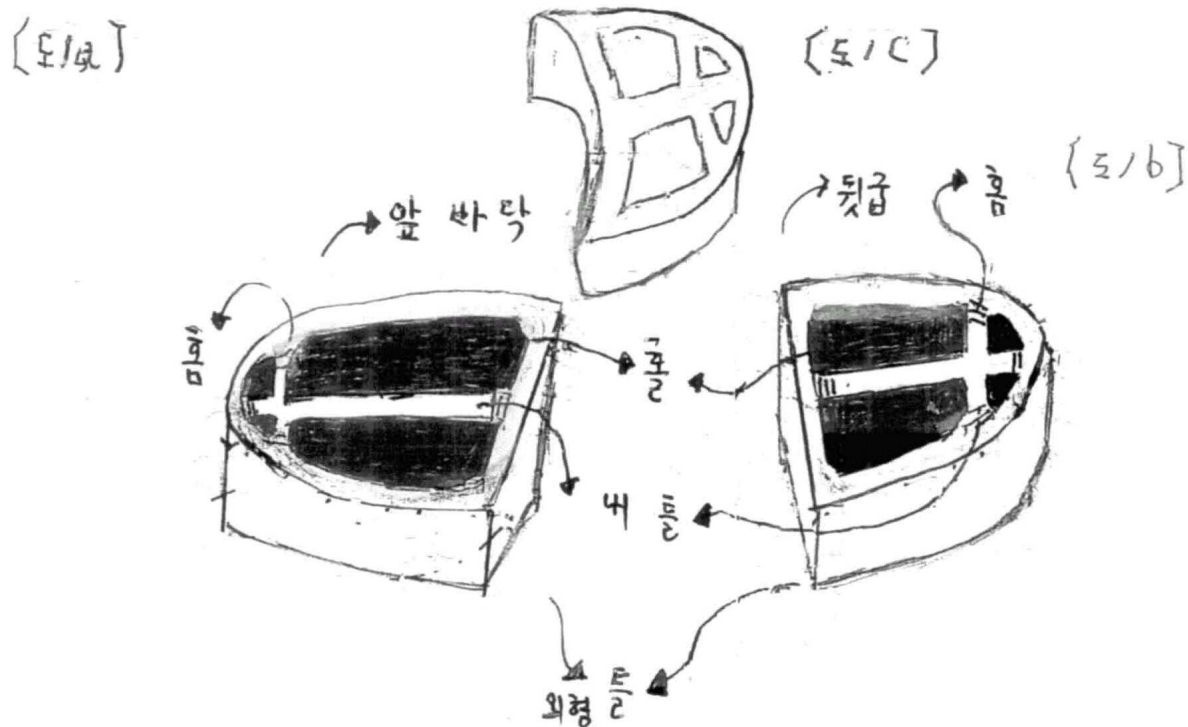
Family 165/432 - FAMPAT - ©Questel

Title

(KR20110007108U)

High helled Sole

Images

**Publication data including kind & date**

KR20110007108

U

2011-07-14

KR20110007108U

**Abstract**

(KR20110007108)

(Is) technical field

The shoe of the shoe to an existing adhesive that can adjust the height of the shoe sole and heel.

(Or) problem to be solved.

The bottom of the shoe with the heel height difference between the short leg of the heavy footwear when not adhered to the addresses

(Invention) means for solving the problem

The bottom of the shoe with the heel elevation as needed to produce the correct height of the curved top of the adhesion to the wearer.

(As) effect

Living being who walk lame of its normal joy.

Inventors

PARK, YOUNG GAB

LEE, KYOUNG

OH, CHUNG JA

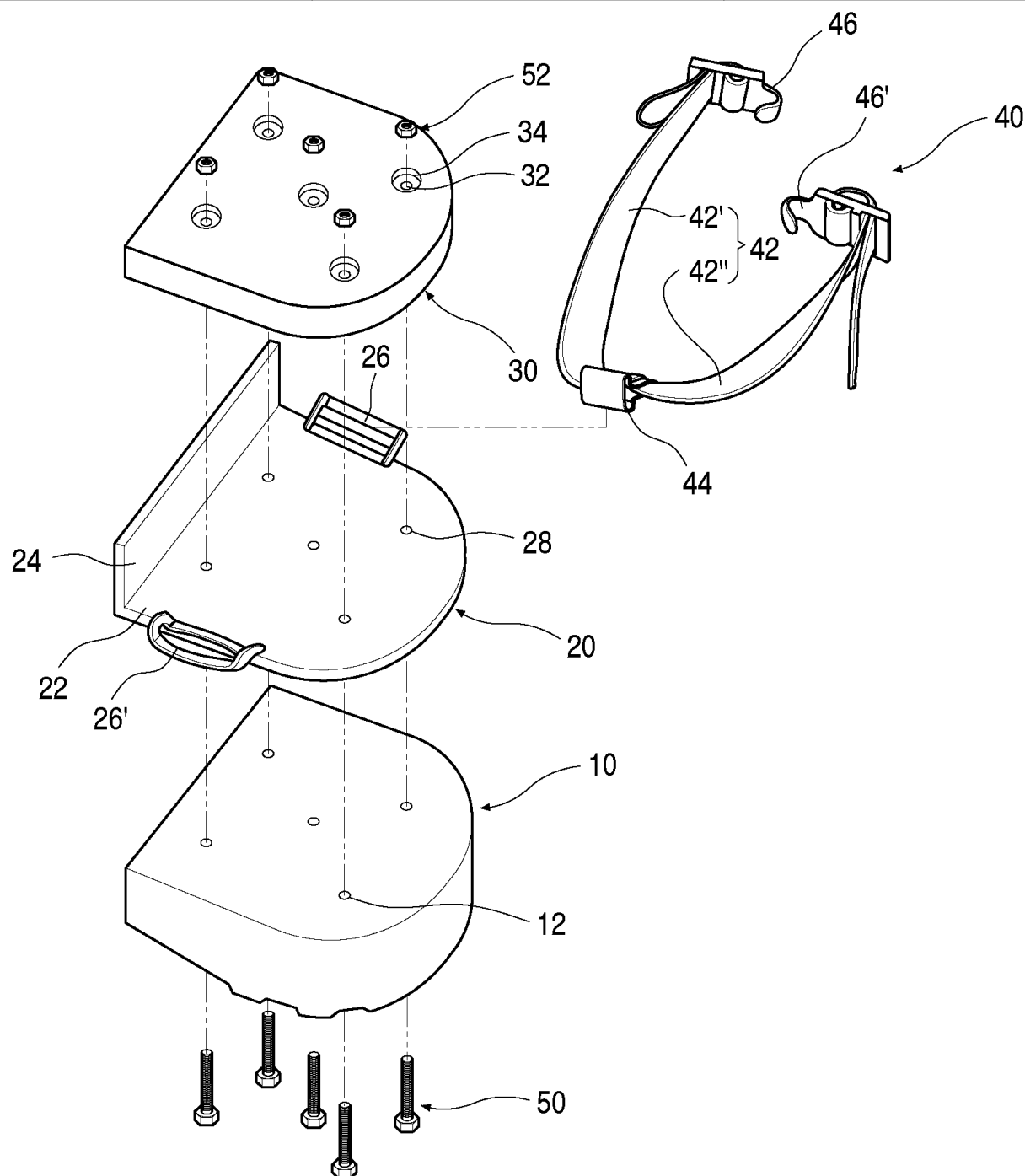
Family 166/432 - FAMPAT - ©Questel

Title

(KR200444077U)

Support equipment for shoe

Images



Publication data including kind & date

KR200444077	Y1	2008-10-01	KR200444077U
KR20080004229	U	2008-10-01	KR20080004229U



Abstract

(KR200444077)

This invention relates to a footwear with a heel of the footwear such as hiking selectively mounted so as to be able to more easily removable shoe relates to an auxiliary device.

The present invention relates to an auxiliary device may be removably attached to the shoe, the height of the back of the shoe and a weighted member (10); provided to a side of the weighted member (10), wherein the weighting member (10) is seated on the heel of the shoe to guide the mounting means (20); provided to a side of the weighted member (10), to alleviate a shock applied to the footwear with a shock absorbing member (30); connected to said mounting means (20), wherein the mounting means (20) and the heel of the shoe and the weighted member (10) is a buffer member (30) selectively coupled to each of the fastening means (40) and the like therein. With such a structure according to the present design having, if necessary to more easily attachable to a shoe and a climbing, semi permanently available benefits.

Inventors

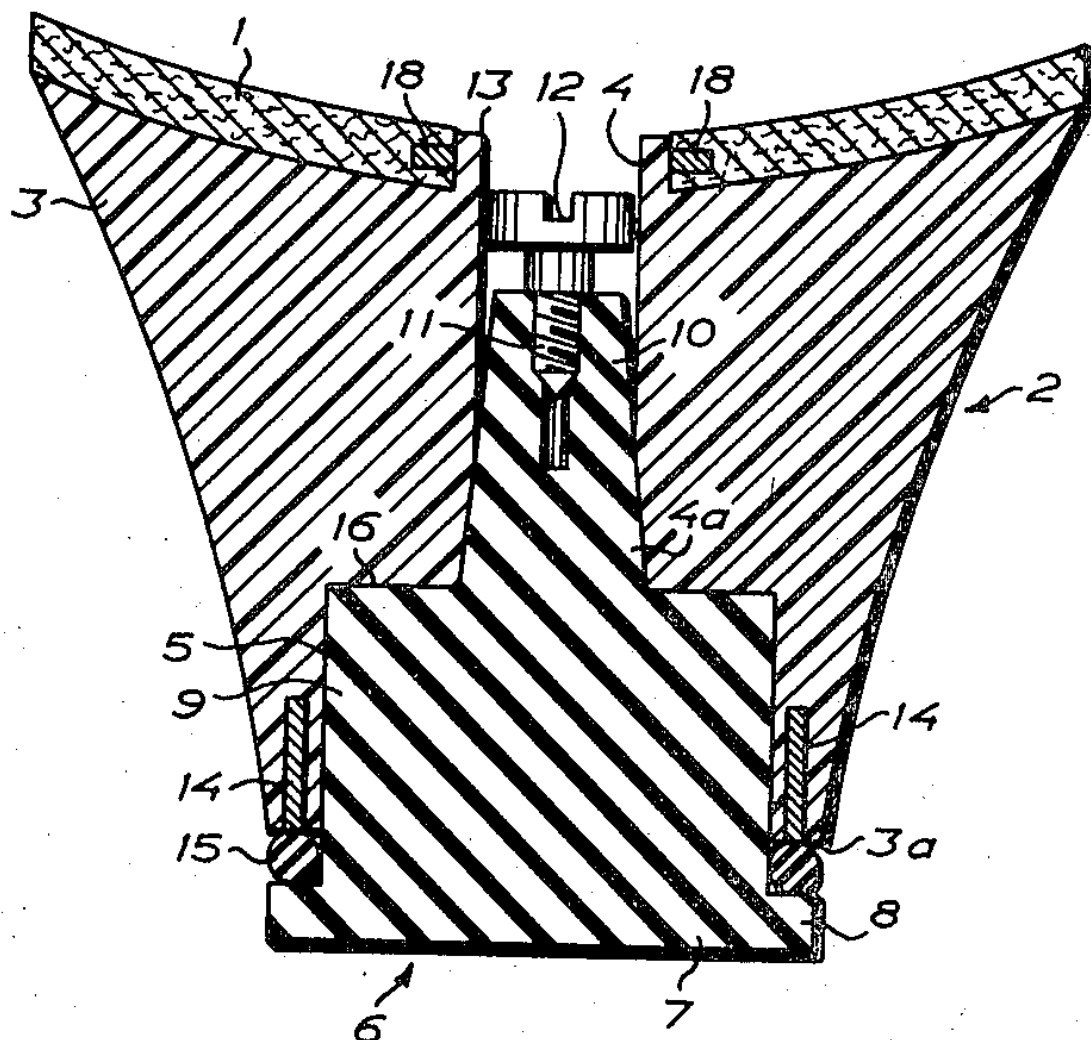
LEE, SSANG YONG

Family 167/432 - FAMPAT - ©Questel

Title

(US3822709)

Shoe having heel with replaceable insert member

Images**Publication data including kind & date**[US3822709](#)

A

1974-07-09

US3822709

**Abstract**

(US3822709)

A shoe is provided with a heel comprising a portion consisting of a relatively rigid material permanently attached to the shoe and having mounted therein a replaceable elongated inset member of elastic material projecting beyond the bottom surface of the heel.

Inventors

GRUNER M

Family 168/432 - FAMPAT - ©Questel

Title

(FR1256039)

Heel, in particular of woman shoes, as well as the shoes fitted with this similar heel

Publication data including kind & date

FR1256039

A 1961-03-17 FR1256039

Inventors

MOUQUET HENRI

Family 169/432 - FAMPAT - ©Questel

Title

(CA2919456)

High heel shoe with detachable heel components

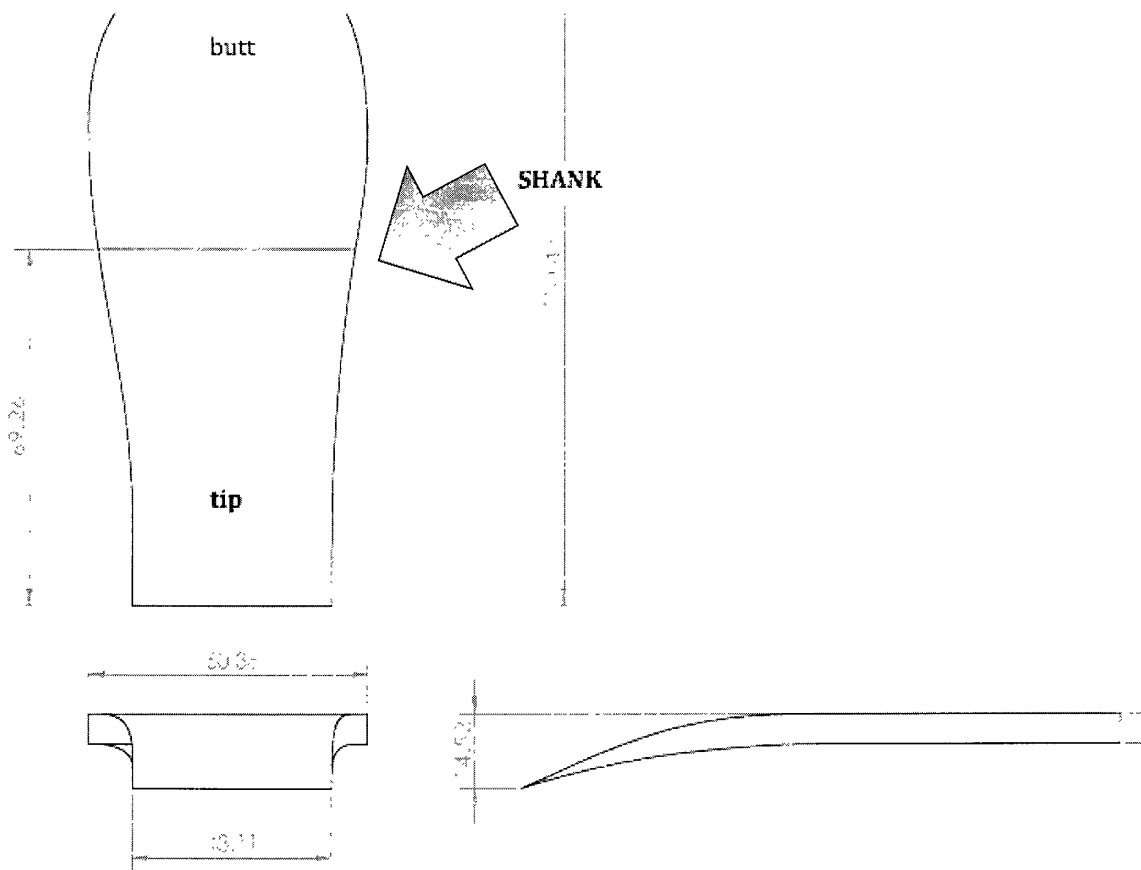
Images

figure 1000.3 - Shank

Publication data including kind & date

CA2919456

A1 2017-08-01 CA2919456

**Abstract**

(CA2919456)

The shoes design consists of four (4) proprietary components. i) Shank ii) Heel iii) Wedge iv) Clip The Shank can be affixed to the sole of any existing high heel. The Clip is then attached to the bottom of the Shank. The Clip gives way for the either the Heel or the Wedge to be securely attached to the bottom of the shoe. The Heel or Wedge slides on and locks into place. Pressing the Clip's release mechanism allows the user to detach the Heel or Wedge from the bottom of the shoe. The shoes overall design allows for the High Heel to be disengaged from the sole of the shoe and replaced with the Wedge. The Wedge allows the user to wear their shoe as a flat-bottomed shoe. Two shoes in one.

Inventors

GORDON CARL O

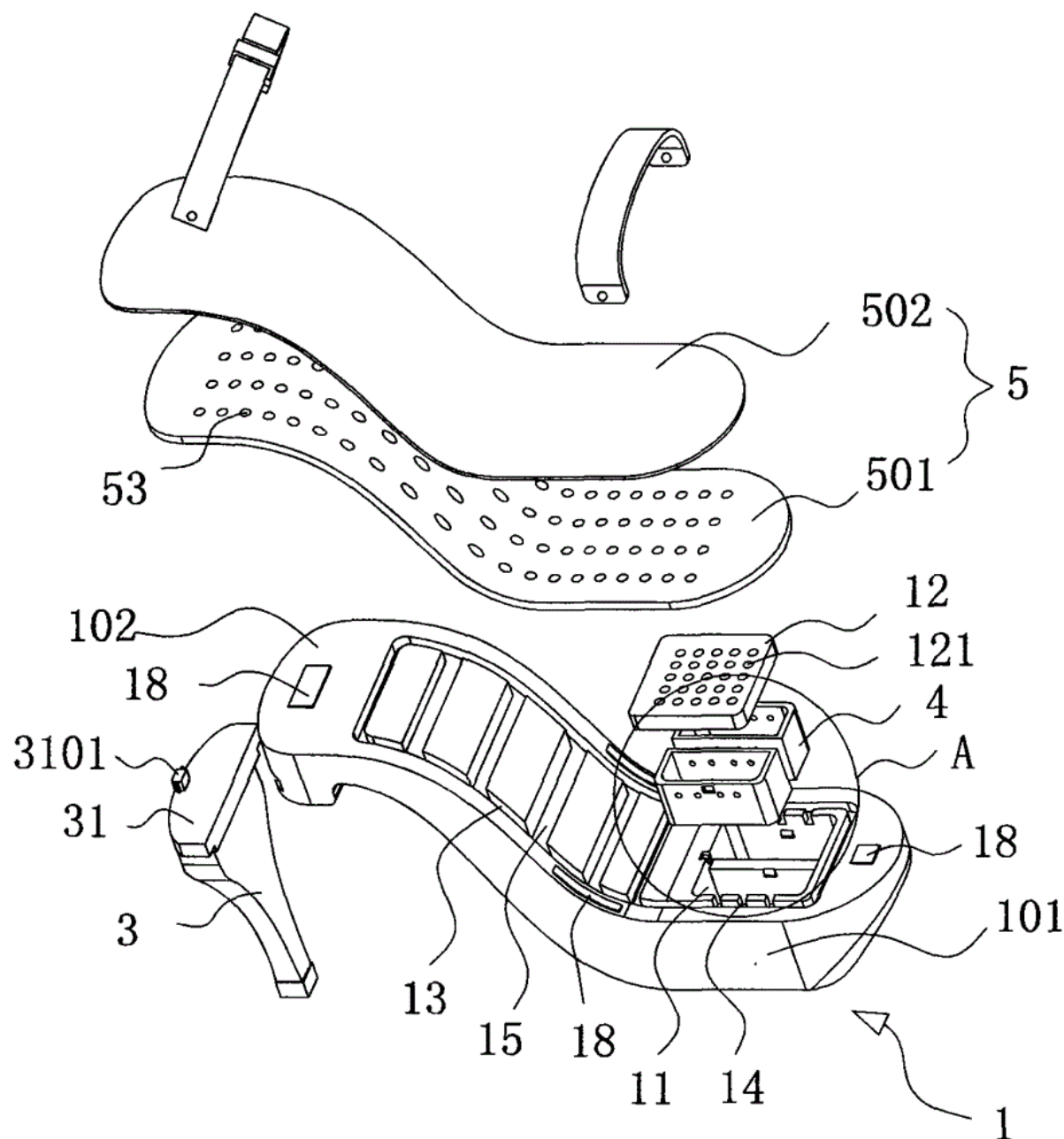
Family 170/432 - FAMPAT - ©Questel

Title

(CN106213670)

Healthcare shoes

Images



Publication data including kind & date

CN106213670

A

2016-12-14

CN106213670



Abstract

(CN106213670)

The invention discloses healthcare shoes, comprising shoe soles and vamps arranged on the shoe soles; the shoe soles comprise half sole parts and heel parts, the bottoms of the heel parts are provided with shoe heels, the half sole parts are provided with center grooves, the center grooves are internally detachably connected with drug boxes, and drugs for treating dermatophytosis are arranged in the drug boxes; the shoe soles are provided with annular grooves around the center grooves, and communicating grooves are communicated between the annular grooves and the center grooves; the shoe heels are detachably connected to the heel parts. The healthcare shoes have the advantages that the air permeability is good, dermatophytosis can be treated, and a user can conveniently replace the shoe heels.

Inventors

PING HONGYING

Family 171/432 - FAMPAT - ©Questel

Title

(WO2017166892)

Detachable connection assembly and shoes using detachable connecting assembly

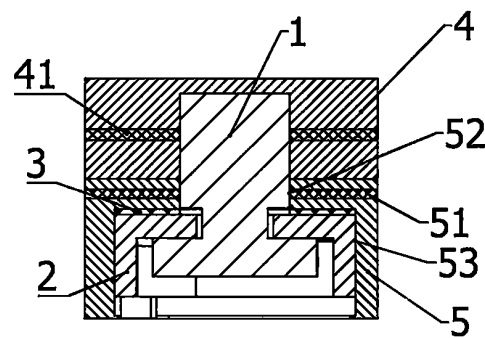
Images

图3

Publication data including kind & date

WO2017/166892	A1	2017-10-05	WO2017166892
CN105639842	B	2017-05-31	CN105639842B
CN105639842	A	2016-06-08	CN105639842

**Abstract**

(WO2017/166892)

A detachable connection assembly and shoes using the detachable connection assembly. The detachable connection assembly comprises an upper fastener (1) and a lower fastener (2). The upper fastener (1) comprises a rod structure (11) and a locking button (12) located at an end of the rod structure (11). An assembly II (5) is provided with a connection hole (52) for the locking button (12) to pass through. The lower fastener (2) is provided with a locking portion (21) corresponding to the locking button (2). The locking portion (21) is provided with a locking hole (211) for the locking button (12) to pass through. The locking portion (21) is provided with a locking surface (212). The locking button (12) passes through the locking hole (211), then leaves the locking hole (211) under the effect of relative displacement between the upper fastener (1) and the lower fastener (2), and abuts against the locking surface (212) in an axial direction of the rod structure (11) to achieve snap fit between the locking button (12) and the locking portion (21). The locking surface (212) is of a wedge-shaped structure, and a locking groove (213) is provided in a stroke tail end of the locking surface (212). The detachable connection assembly can achieve detachable fastening connection of two assemblies, has higher performance in looseness prevention and stable locking power, is convenient to mount and dismount, is widely applicable, and the shoes using the connection assembly can be detachable.

Inventors

LI HONG

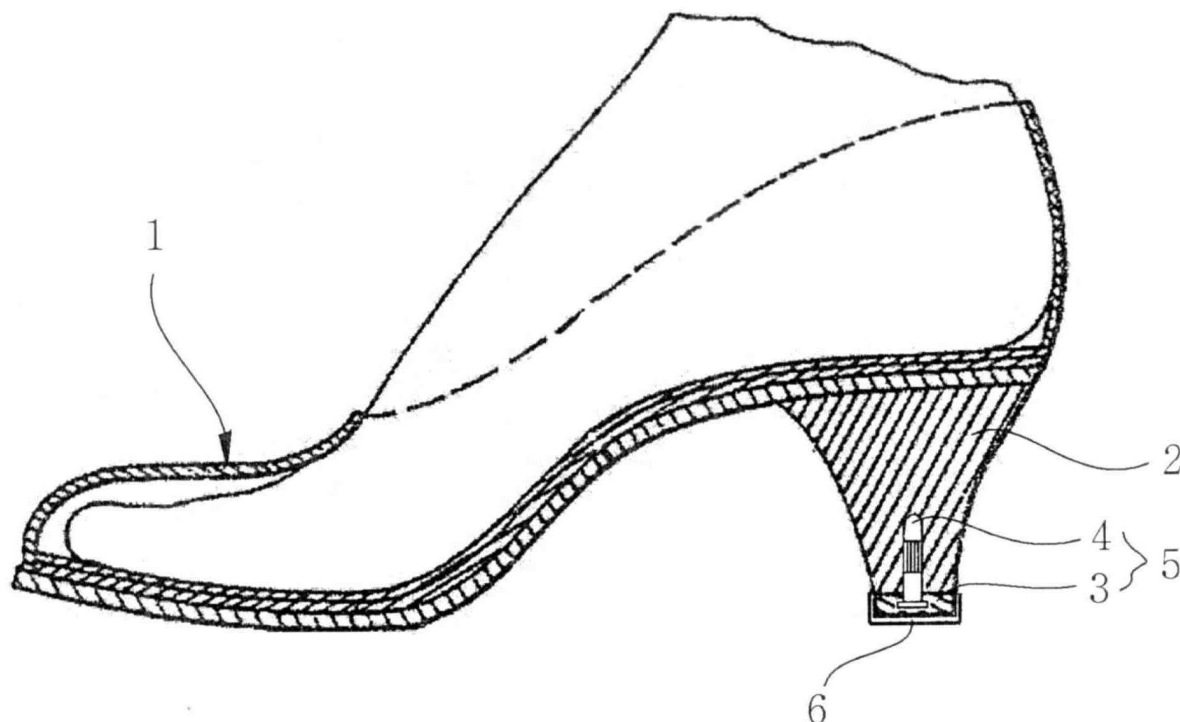
Family 173/432 - FAMPAT - ©Questel

Title

(KR100930860)

Hobnail for high-heeled shoes including a bottom sole cover made of tough and elastic rubber

Images

**Publication data including kind & date**[KR100930860](#)

B1

2009-12-14

KR100930860

[KR20090035679](#)

A

2009-04-10

KR20090035679

**Abstract**

(KR20090035679)

PURPOSE: A hobnail for the high-heeled shoes is provided, which prevents bottom surface of bottom sole from being worn away, reduces noise, and absorbs impact.

CONSTITUTION: A hobnail for the high-heeled shoes comprises: a bottom heel(3) of the heel(2) of the high-heeled shoes; a hobnail(5) for perpendicularly setting the fixation pin(4) to the bottom heel; and a bottom heel cover(6) which is detachably installed in order to surround the bottom surface and outer circumference of bottom heel. The bottom heel cover is made of tough and elastic rubber. A vertical member(7) is upwardly protruded in the top circumference of the bottom part(8).

(C) KIPO 2009

Inventors

CHOI, JI HYE

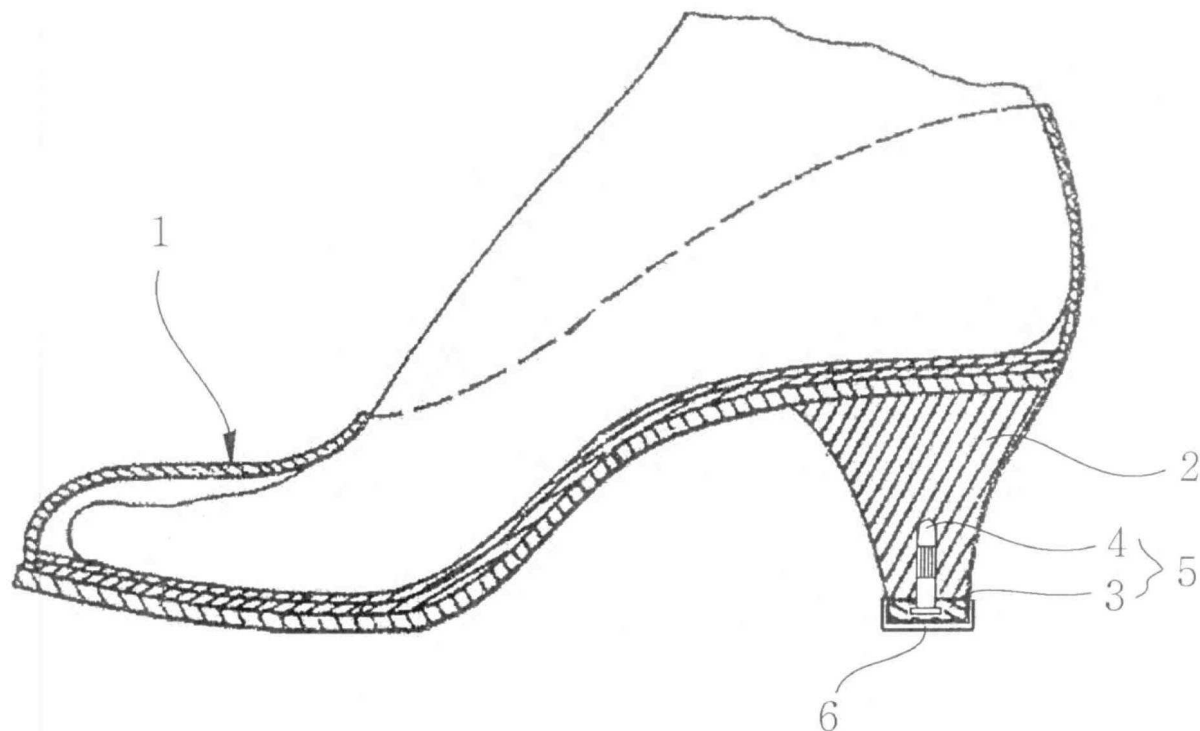
Family 174/432 - FAMPAT - ©Questel

Title

(KR20090007256)

Bottom sole cover for the high-heeled shoes, which is detachably installed at the bottom sole

Images



Publication data including kind & date

KR20090029254	A	2009-03-20	KR20090029254
KR20090007256	A	2009-01-16	KR20090007256



Abstract

(KR20090007256)

PURPOSE: A bottom sole cover for the high-heeled shoes is provided to prevent slipping and to reduce the noise and the impact which are generated while the bottom sole of the high-heeled shoes comes into contact with the ground.

CONSTITUTION: A bottom sole cover for the high-heeled shoes comprises: a heel(2) of the high-heeled shoes(1); a bottom sole(3) installed at the bottom surface of the heel; a hobnail(5) which perpendicularly sets the fixation pin(4) at the bottom sole; and a bottom cover(6) which is inserted and separated in order to surround the bottom surface and outer circumference of the bottom sole. The bottom sole cover is made of the rubber which is tough and has elasticity.

© KIPO 2009

Inventors

CHOI, JI HYE

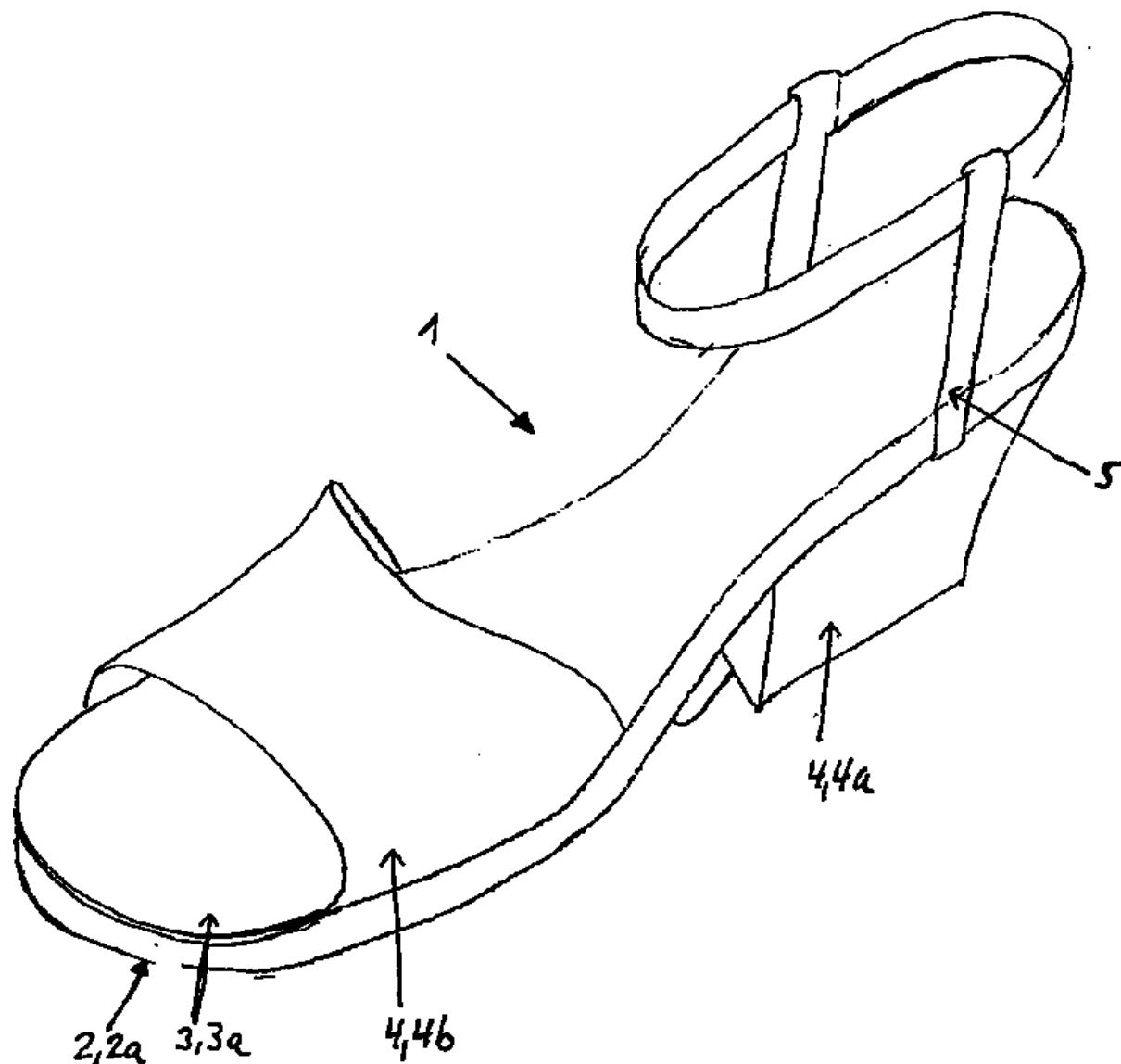
Family 175/432 - FAMPAT - ©Questel

Title

(DE102004017113)

Modular shoe system for manufacturing complete shoe e.g. ladies shoe, has additional function unit designed as heel unit that has recess into which portion of retaining unit is inserted for connecting recess and retaining unit

Images

**Publication data including kind & date**[DE102004017113](#)

A1 2005-10-27

DE102004017113

**Abstract**

(DE102004017113)

The system has a base shoe unit (1) including a sole unit (2a) and a foot bed unit (3a). An additional function unit (4) designed as a heel unit (4a), changes an optical appearance of a shoe, and is joined to the base shoe unit (1). The heel unit has a recess into which a portion of a retaining unit is inserted for the implementation of a functional connection between the recess and the retaining unit.

Inventors

NAJIPOUR FARIBA

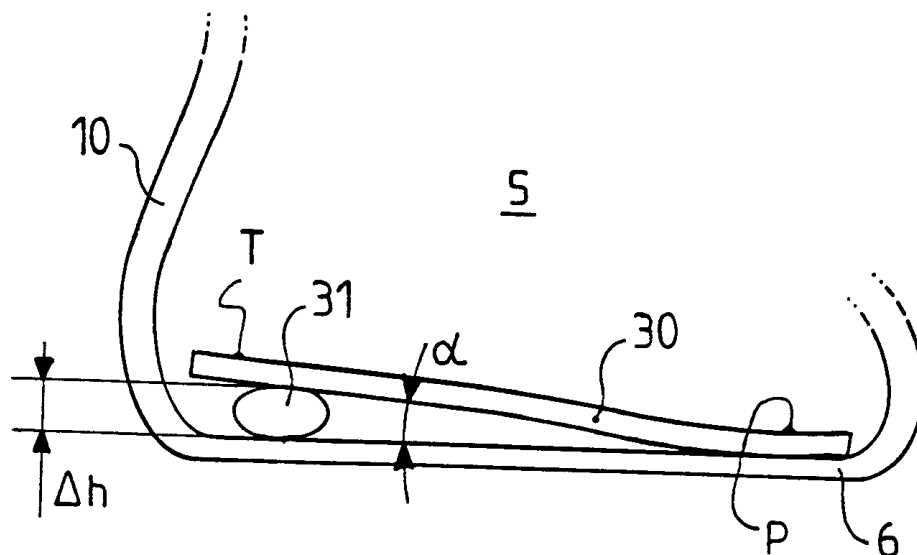
Family 176/432 - FAMPAT - ©Questel

Title

(FR2750881)

Boot to adjust angular height of foot

Images

**Publication data including kind & date**[FR2750881](#)

A1 1998-01-16 FR2750881

**Abstract**

(FR2750881)

The skate has a boot (5) with a shell (10) and a sole (6) joined to the upper plate of the frame. The angular position of the foot in the boot is adjusted from a flat position of the foot and a raised position of the heel. An air pocket that can be inflated is placed between the inner sole and the sole and at the level of the heel (T). The height of the heel can be adjusted by an outer screw, behind the heel, that is joined to the inner sole which pivots at the front.

Inventors

BOREL RENE

Latest standardized assignees - inventors removed

SALOMON

Family 177/432 - FAMPAT - ©Questel

Title

(DE3437024)

Heel protector for men's, ladies' and children's shoes

Publication data including kind & date[DE3437024](#)

A1 1986-04-10 DE3437024

**Abstract**

(DE3437024)

Published without abstract.

Inventors

DER ERFINDEUR WIRD NACHTRAEGLICH BENANNT

Latest standardized assignees - inventors removed

KUEHNRIICH GISELA

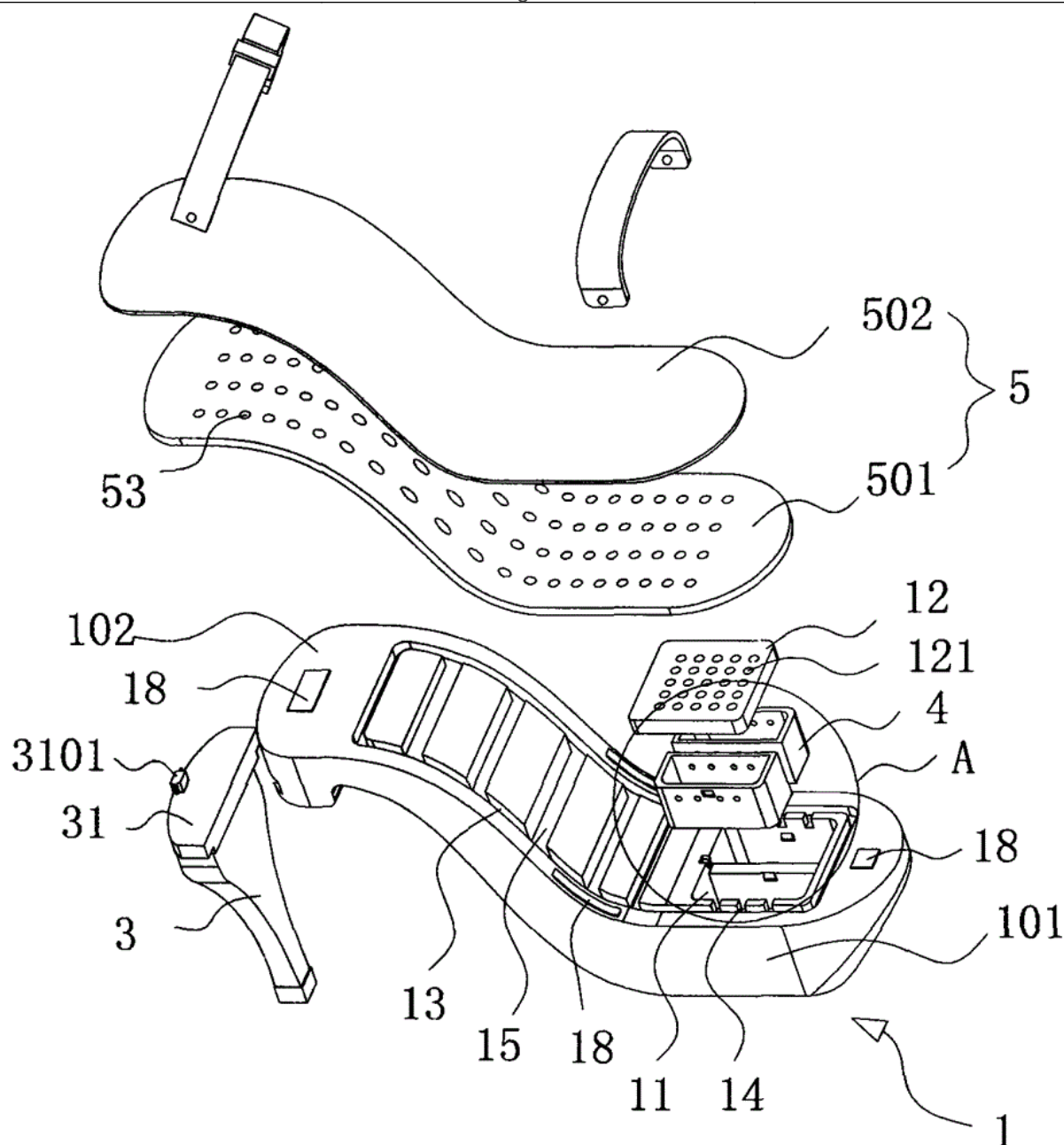
Family 178/432 - FAMPAT - ©Questel

Title

(CN106307784)

Multifunctional sandal

Images

**Publication data including kind & date**

CN106307784

A 2017-01-11 CN106307784

**Abstract**

(CN106307784)

The invention discloses a multifunctional sandal which comprises a sole and a vamp arranged on the sole. The sole comprises a forefoot part and a heel part; a shoe heel is arranged at the bottom of the heel part; a center groove is formed on the forefoot part; a medicine box is connected in a detachable manner to the inside of the center groove; medicine for treating beriberi is placed in the medicine box; the sole is provided with a ring-shaped groove on the periphery of the center groove; a communication groove is communicated between the ring-shaped groove and the center groove; the sole is covered with an insole; the insole is connected in a detachable manner with the sole; the shoe heel is connected in a detachable manner to the heel part. The multifunctional sandal has the advantages that the multifunctional sandal has good air permeability, can have an effect of treating beriberi, meanwhile, is comfortable to wear, and is also convenient for a user to replace the shoe heel.

Inventors

PING HONGYING

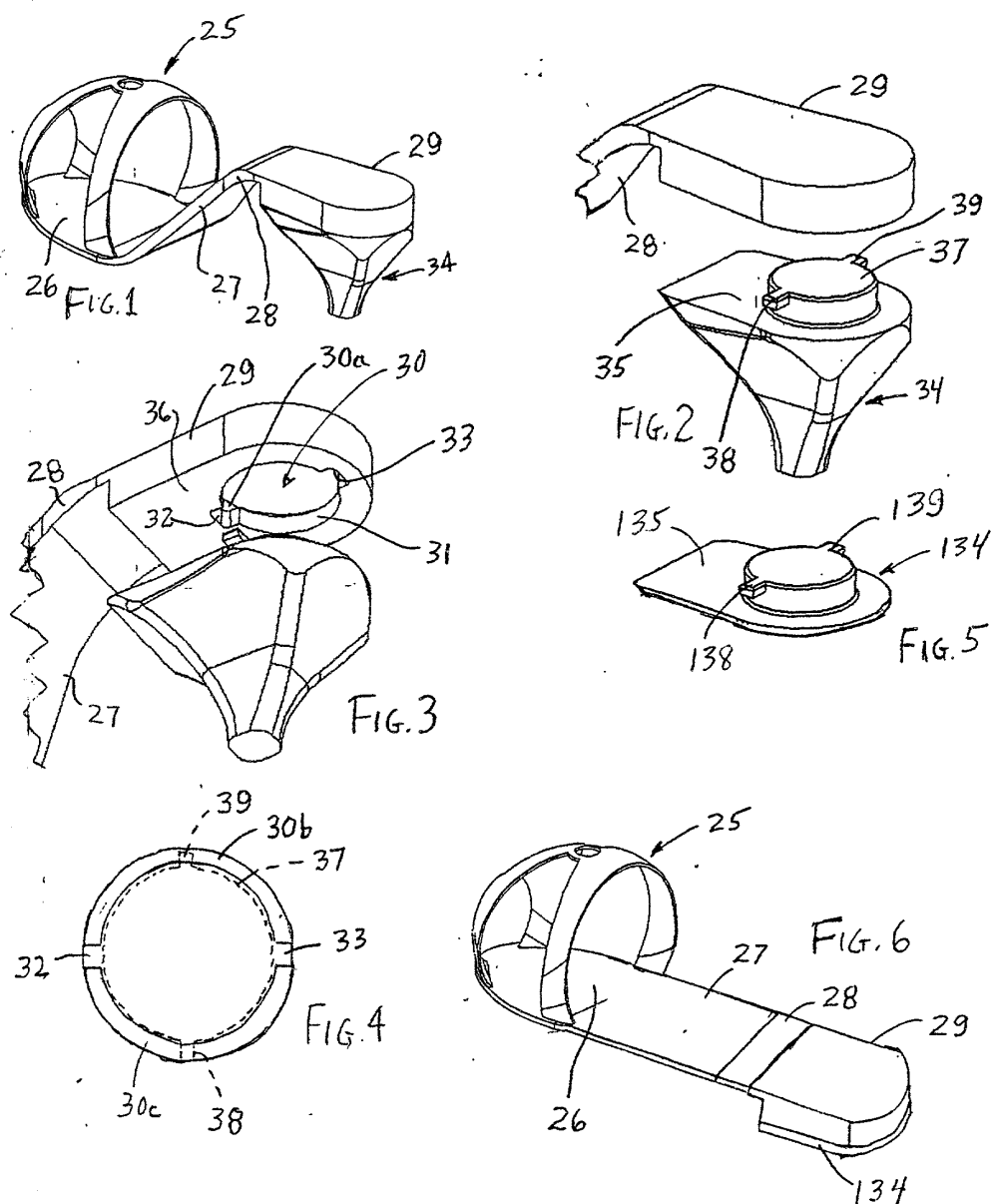
Family 179/432 - FAMPAT - ©Questel

Title

(US20010052195)

Convertible shoe ensemble

Images



Publication data including kind & date

US20010052195

A1 2001-12-20

US20010052195



Abstract

(US20010052195)

A convertible shoe ensemble with a heel that is manually attachable to and removable from the shoe, and a manually attachable and removable heel cover of substantially less height than the heel for attachment to the shoe when the heel is detached.

Inventors

BLAKEY COLLEEN BANKS

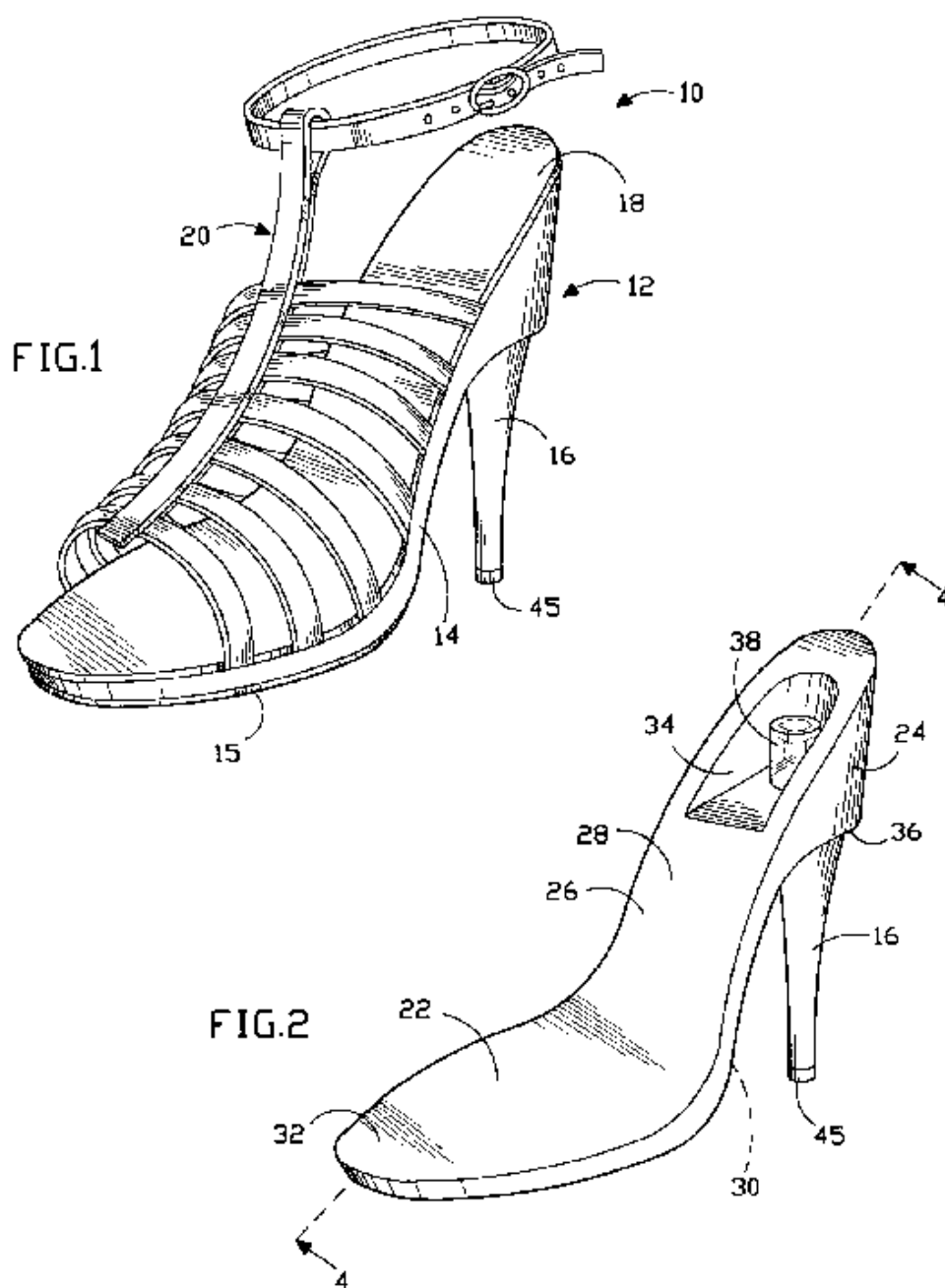
Family 180/432 - FAMPAT - ©Questel

Title

(US6023858)

Two-piece shoe bottom system

Images



Publication data including kind & date

US6023858

A

2000-02-15

US6023858



Abstract

(US6023858)

A two-piece shoe bottom system including a platform structure and a hollow interchangeable heel structure. The platform structure comprises a lower forepart portion, a raised rear heel portion, and a middle wedge portion connecting the forepart portion to the raised rear heel portion. The raised rear heel portion is elevated substantially above the forepart portion so that it will correspond to a particular height of the interchangeable heel structure. A reinforcing bolt member is molded to the underside of the raised heel portion of the platform structure. The hollow interchangeable heel structure is detachably

attached to the reinforcing bolt member.

Inventors

SROURIAN NICHAN

Latest standardized assignees - inventors removed

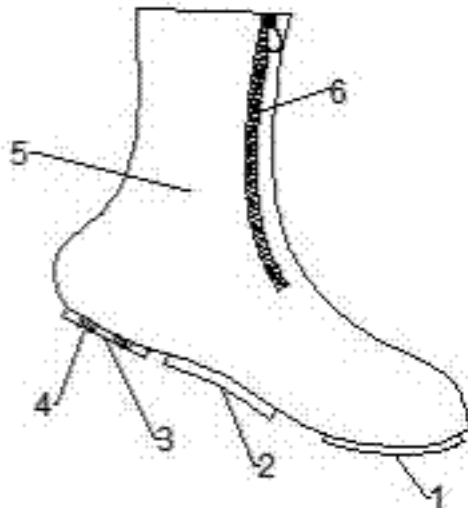
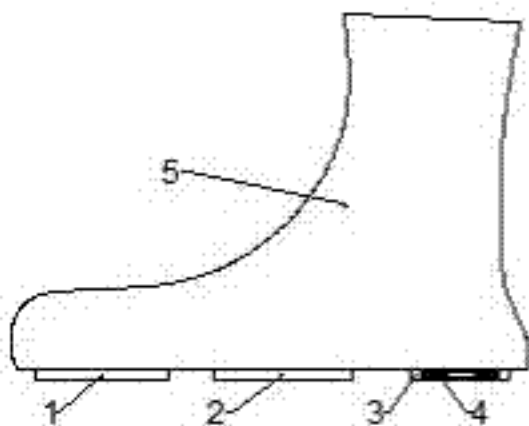
REFLECTIONS SHOE

Family 181/432 - FAMPAT - ©Questel

Title

(CN109349727)

Universal waterproof shoe cover for male and female shoes

Images**Publication data including kind & date**

[CN109349727](#)

A 2019-02-19 CN109349727

**Abstract**

(CN109349727)

The invention relates to a waterproof shoe cover, in particular to a universal waterproof shoe cover for male and female shoes. The waterproof shoe cover comprises a front sole 1, a middle sole 2, a rear sole 3, a telescopic device 4, a vamp 5 and a zipper 6. The shape, the appearance, the material and the like are ingeniously designed, so that the shoe cover is applicable to various kinds of shoes on the basis of water resistance, and meanwhile, the shoe cover has certain attractiveness and portability.

Inventors

MA ZHEN

JING ERKANG

Latest standardized assignees - inventors removed

WUHU ZHENMA INFORMATION TECHNOLOGY

Family 182/432 - FAMPAT - ©Questel

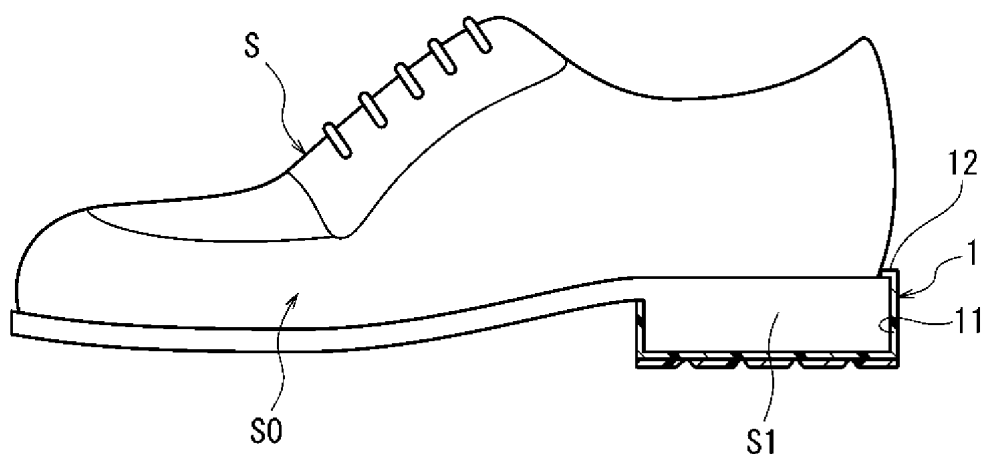
Title

(WO2018131548)

Shoe heel cover

Images

[圖1]

**Publication data including kind & date**

IN201947027950	A	2019-07-26	IN201947027950
JPWO2018131548	A1	2019-03-28	JP2018131548W
WO2018/131548	A1	2018-07-19	WO2018131548

**Abstract**

(WO2018/131548)

Provided is a shoe heel cover that can easily be applied to commercially available shoes, etc. A shoe heel cover (1) is configured so as to have a fitting part (11) that is detachably fitted to the heel (S1) of a shoe (S) comprising a shoe body (S0) and a heel (S1). The heel cover (1) further comprises an latching part (12) that latches to a stepped section formed between the shoe body (S0) and the heel (S1).

Inventors

Takashi Takashi

Family 183/432 - FAMPAT - ©Questel

Title

(WO2019101025)

Shoe with adjustable and replaceable heel

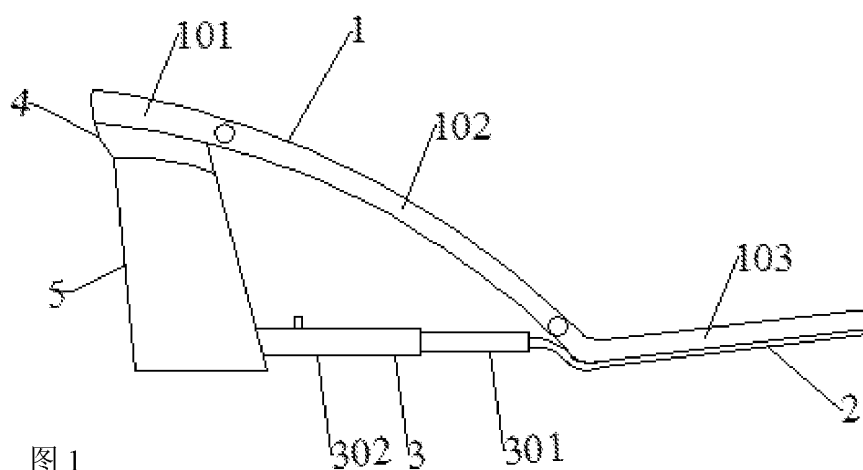
Images

图 1

Publication data including kind & date

[WO2019/101025](#) A1 2019-05-31 WO2019101025
[CN107772633](#) A 2018-03-09 CN107772633

**Abstract**

(WO2019/101025)

A shoe with an adjustable and replaceable heel, comprising an insole (1), a heel (5), and an upper wrapped above the insole (1), and further comprising a sole (2) and a fastening device. The insole (1) sequentially comprises a sole member (103), an arch member (102), and a heel member (101) from front to back. The sole member (103) of the insole (1) is fixedly connected to a front end of the sole (2). A lower end of the heel member (101) is detachably connected to the top of the heel (5). The bottom of the heel (5) is slidably connected to the rear end of the sole (2). Providing the sole (2) improves the stress stability of a high-heeled shoe. The heel (5) is replaceable so that the practicability is high.

Inventors

ZHANG LIEPING

Latest standardized assignees - inventors removed

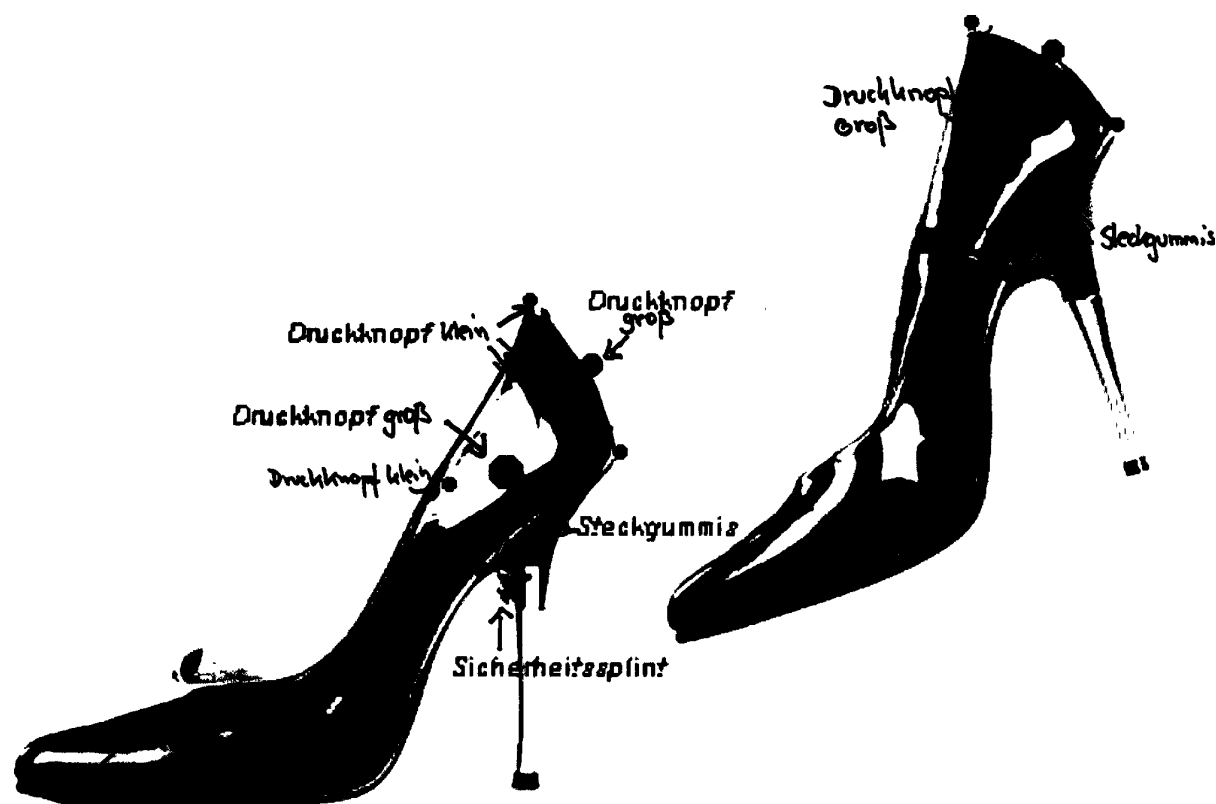
ZHANG LIEPING

Family 184/432 - FAMPAT - ©Questel

Title

(DE102010020686)

Interchangeable heel for women shoes, is designed to be interchanged with pin-spring system as supporting heel, where ground level of front shoe is reached for different heel heights due to different curvature of heel

Images**Publication data including kind & date**

[DE102010020686](#) A1 2011-11-24 DE102010020686

**Abstract**

(DE102010020686)

The interchangeable heel is designed to be interchanged with a pin-spring system as a supporting heel. A ground level of a front shoe is reached for different heel heights due to different curvature of the heel. Different forms of heels are accommodated in a holder system. A tight fit of the heel is ensured by incorporating a groove in a heel holding area.

Independent claims are also included for the following: (1) a spring-groove system for an interchangeable heel; and (2) a push-button system for use in an interchangeable heel.

Inventors

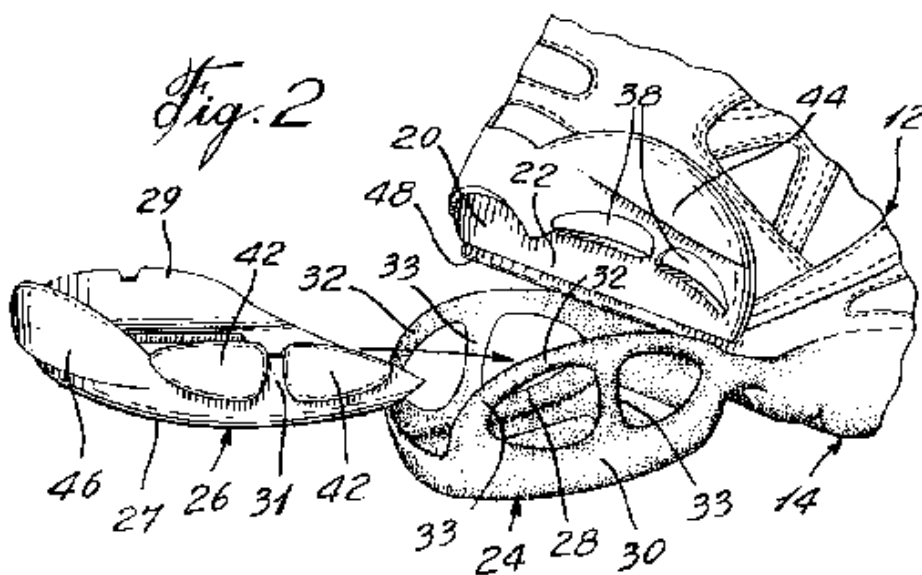
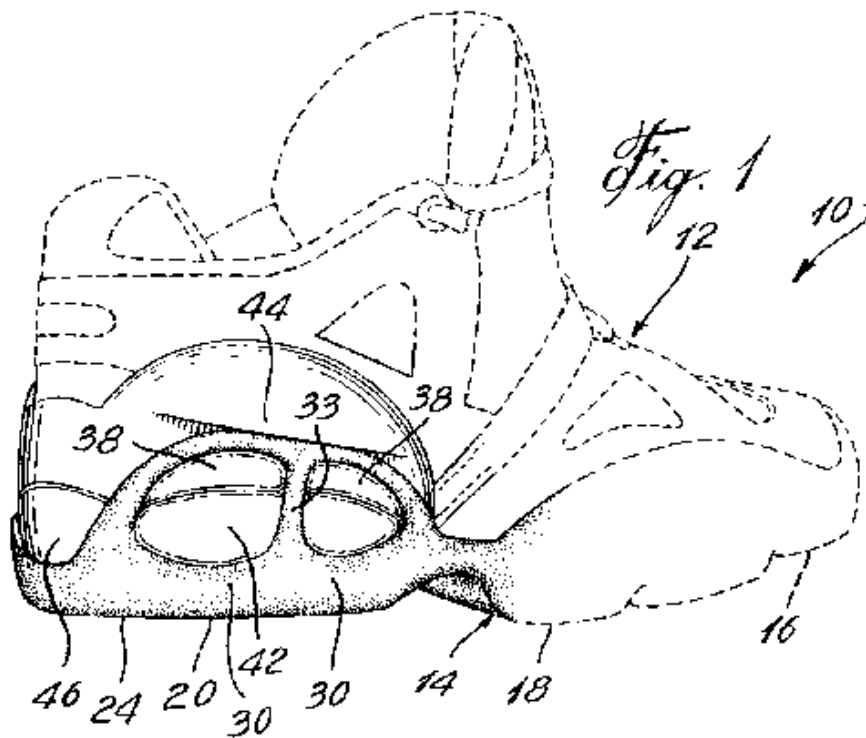
MAREK CLAUS-PETER

Family 185/432 - FAMPAT - ©Questel

Title

(EP-952777)

Shoe sole with removal insert

Images

US6023859	A	2000-02-15	US6023859
EP0952777	A1	1999-11-03	EP-952777
US5799417	A	1998-09-01	US5799417
AU5546598	A	1998-08-03	AU9855465
WO98/30120	A1	1998-07-16	WO9830120
CA2277283	A1	1998-07-16	CA2277283

**Abstract**

(EP0952777)

A sport shoe (10) having an upper (12), a sole (14) having at least an outer sole having a mobile portion (24) at least at the heel portion (20) of the sole which is pivotable about a lateral axis forward of the heel portion (20). A midsole insert member (26) is insertable between the mobile portion (24) and the upper (12). The mobile portion includes upper engaging projections (28, 30) cooperating with the upper (12) to prevent the midsole insert (26) from moving laterally relative to the upper (12) when the midsole insert member is introduced between the mobile portion (24) and the upper (12).

Inventors

BURKE ROBERT

RUSSELL JAMES

SHAANAN GAD

FRANCOVICH WALTER

BROUSSEAU IVAN

Latest standardized assignees - inventors removed

BATA

Family 186/432 - FAMPAT - ©Questel

Title

(US3299542)

Shoe heel with exchangeable tread part

Images

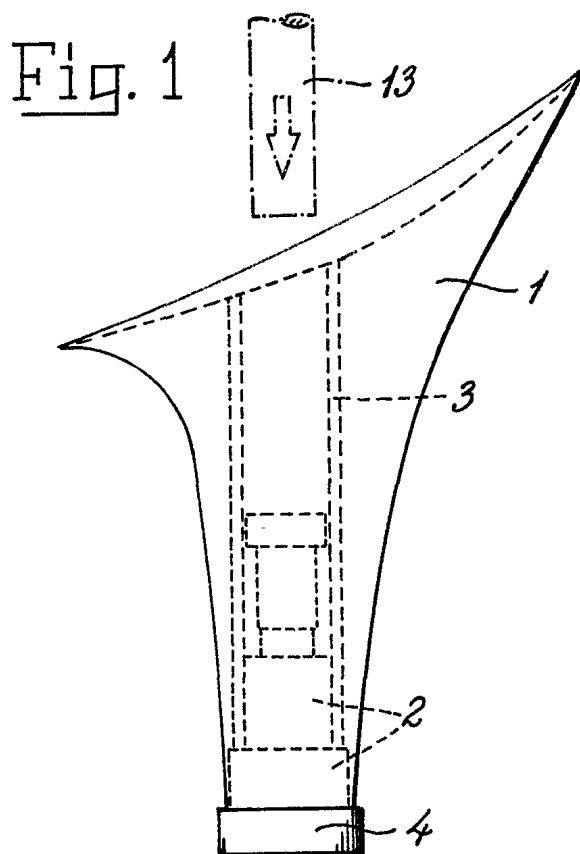


Fig. 3

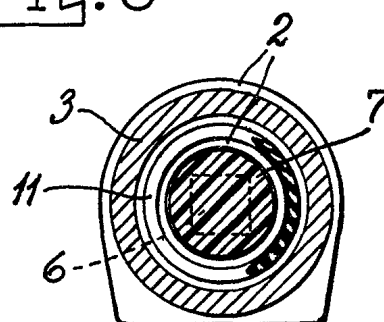


Fig. 2

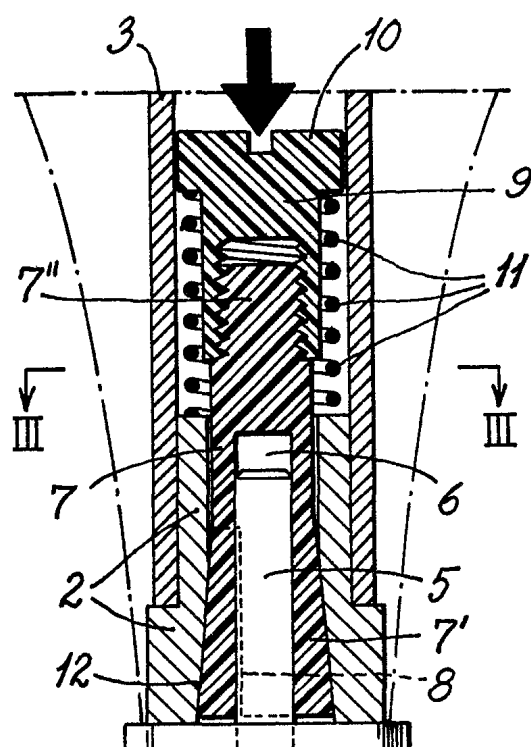


Fig. 4

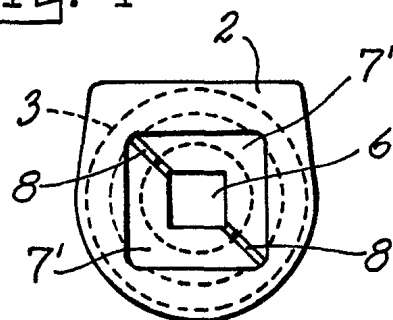
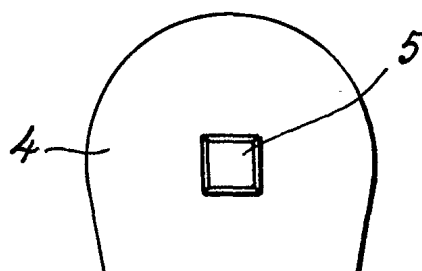


Fig. 5



AT265908	B	1968-10-25	AT-265908
CH435032	A	1967-04-30	CH-435032
GB1056059	A	1967-01-25	GB1056059
US3299542	A	1967-01-24	US3299542
FR1446756	A	1966-07-22	FR1446756
NL6511384	A	1966-04-12	NL6511384
ES317887	A1	1966-03-16	ES-317887
BE670450	A	1966-01-31	BE-670450



Abstract

(US3299542)

The non-circular, preferably square cross-section stem 5 of a detachable top-lift 4 is received in a matching cavity 6 in the lower end of a socket member 7 which is slidable in a heel and urged upwardly by a spring 11, the lower end 71 of the socket member being slotted lengthwise (8) and having a non-circular, preferably square, cross-section which gradually increases in size towards the tread part 4, and engaging in the lower mouth portion 12 of the hole in the heel which is of corresponding shape and taper. The heel may be formed, for example, of wood or plastics material, and the socket member may engage in a bore in the heel or in a metallic member 2 attached to the heel and having a tubular extension 3 which extends through the entire heel. Spring 11 is arranged between member 2 and a nut 9 detachably secured to socket member 7. The assembly is lowered for replacing the top lift by pressing downwardly on nut 9. Stem 5 may be roughened or have transverse corrugations.

(From GB1056059 A)

Inventors

HERBERT NYLUND KNUT

Latest standardized assignees - inventors removed

KNUT HERBERT NYLUND

Family 187/432 - FAMPAT - ©Questel

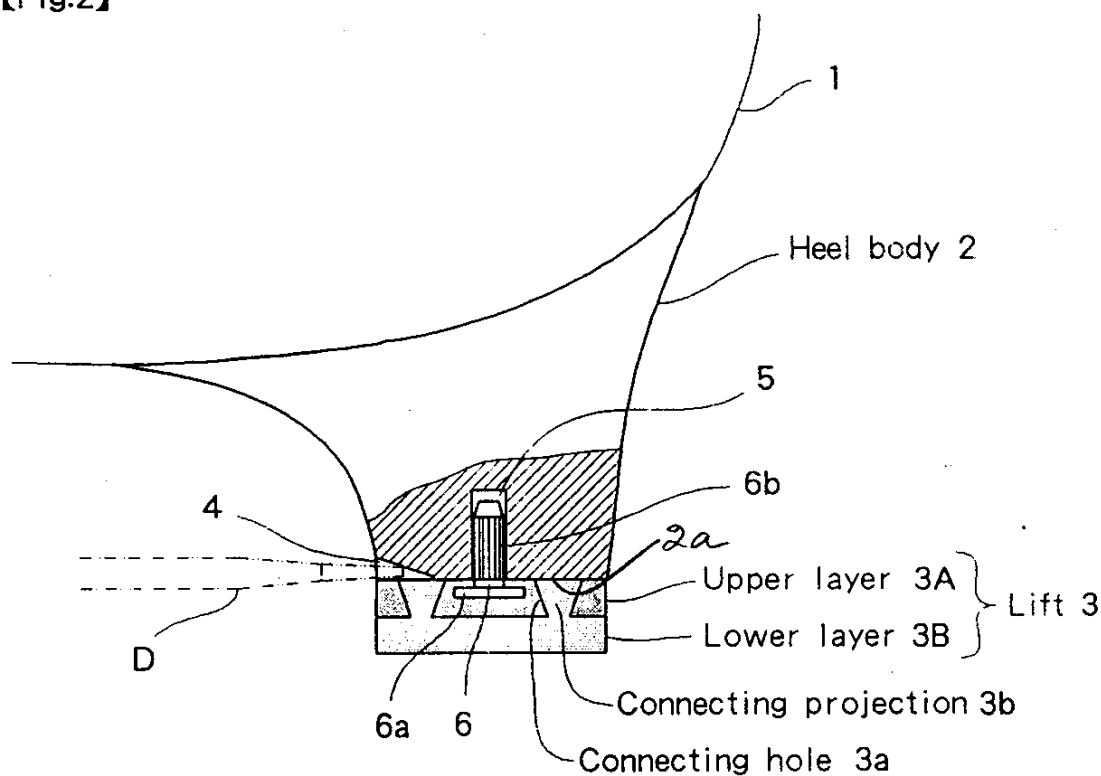
Title

(EP-573717)

Shoe lift construction.

Images

【Fig.2】

**Publication data including kind & date**

JPH06108	U	1994-01-11	JP06000108U
KR940000061	A	1994-01-03	KR19940000061
CN1079884	A	1993-12-29	CN1079884
EP0573717	A1	1993-12-15	EP-573717
CA2078755	A1	1993-12-12	CA2078755

**Abstract**

(EP0573717)

This disclosure comprises a replaceable lift 3 for attachment to the heel of a shoe. The lift is molded from two resin layers, an upper layer and lower layer, and one of these two resin layers is preferably molded from a hard resin, and the other layer is preferably molded from a relatively soft resin. Furthermore, connecting holes are formed in one of the layers and connecting projections are formed in the other layer in order to form the upper and lower resin layers into a single piece. For example, a nylon resin layer is used for the upper layer and a urethane resin layer is used for the lower layer.

Inventors

HIRAKI MASARU

OKAMATSU KENJI

Latest standardized assignees - inventors removed

HIRAKI

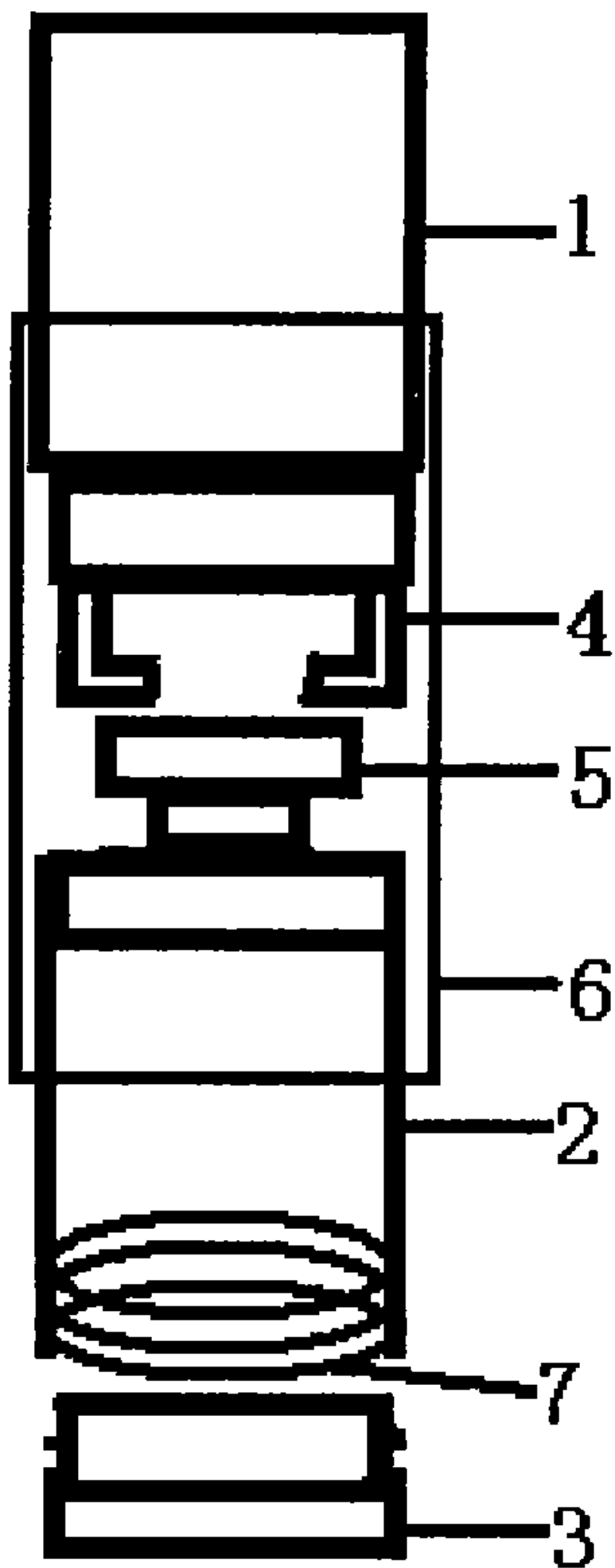
Family 188/432 - FAMPAT - ©Questel

Title

(CN201219558U)

Sliding sheet type dismountable heels

Images



Publication data including kind & date

CN201219558 Y 2009-04-15 CN201219558U

**Abstract**

(CN201219558)

The utility model discloses a sliding piece type dismountable heel which can be replaced or regulated at any time. The heel comprises a fixing heel, a telescopic heel and a friction heel, wherein the fixing heel is connected with the telescopic heel by a sliding block and sliding groove type structure or device, the telescopic heel is connected with the friction heel by a dismountable structure or device, a sliding block arranged on the telescopic heel is inserted in a sliding groove which is arranged on the fixing heel or an inserting plate is inserted into a groove, screw threads on the telescopic heel and the friction heel are mutually and tightly screwed or clamping holes are tightly clamped to connect the members, protecting pieces are surrounded on the peripheries of the fixing heel and the telescopic heel, namely the sliding block and sliding groove type structure or device, and one fixing heel can be matched with 1 to 10 telescopic heels and friction heels which can be replaced into different styles or heights according to requirements. The utility model is convenient to the trip, the tour and the working requirement of people, in particular to women, and can save cost for enterprises.

Inventors

LIAN BIN

Family 189/432 - FAMPAT - ©Questel

Title

(JP07055925Y)

Heel cover Shoe

Publication data including kind & date

JPH0755925 Y2 1995-12-25 JP07055925Y
JP7009108 U 1995-02-10 JP07009108U

**Abstract**

(JP7009108)

[Object] having versatility while the structure is simple, which is worn exotoxins calcaneus to facilitate the procedure to facilitate repair of the heel. PURPOSE: The heel of the shoe cover 10 is, the ground plane of the heel of the shoe and a bottom wall portion covering 11 and, a bottom wall portion 11 upright from the circumference of the peripheral wall portion 12 and, the bottom wall portion 11 is, the elastic member such as a hard rubber formed, the ground plane side 11a is, slip-engraved grooves respectively. Then, the bottom wall portion 11 ground plane side 11a opposite 1 1d is, the ground plane of the heel of the shoe rear position facing the elastic member having adhesion 13 are provided. The elastic member 13 is, for example, a double-sided tape or the like made of rubber is worn formed to fill the recess serves as the sole. In addition, the bottom wall portion 11 to a substantially central position is, a bonding member made of rubber as a double-sided tape 14 are provided. The peripheral wall portion 12 is, an elastic rubber or the like is disposed, the bottom wall portion 11 leading edge 11e standing except for the continuous from the peripheral edge, the front end edge on both sides thereof, the locking means is coupled to the leading edge of the strip-like member as 15 is provided.

Inventors

Toshiro Ito

Tetsuka Tsukamoto

Latest standardized assignees - inventors removed

MADISON AVENUE

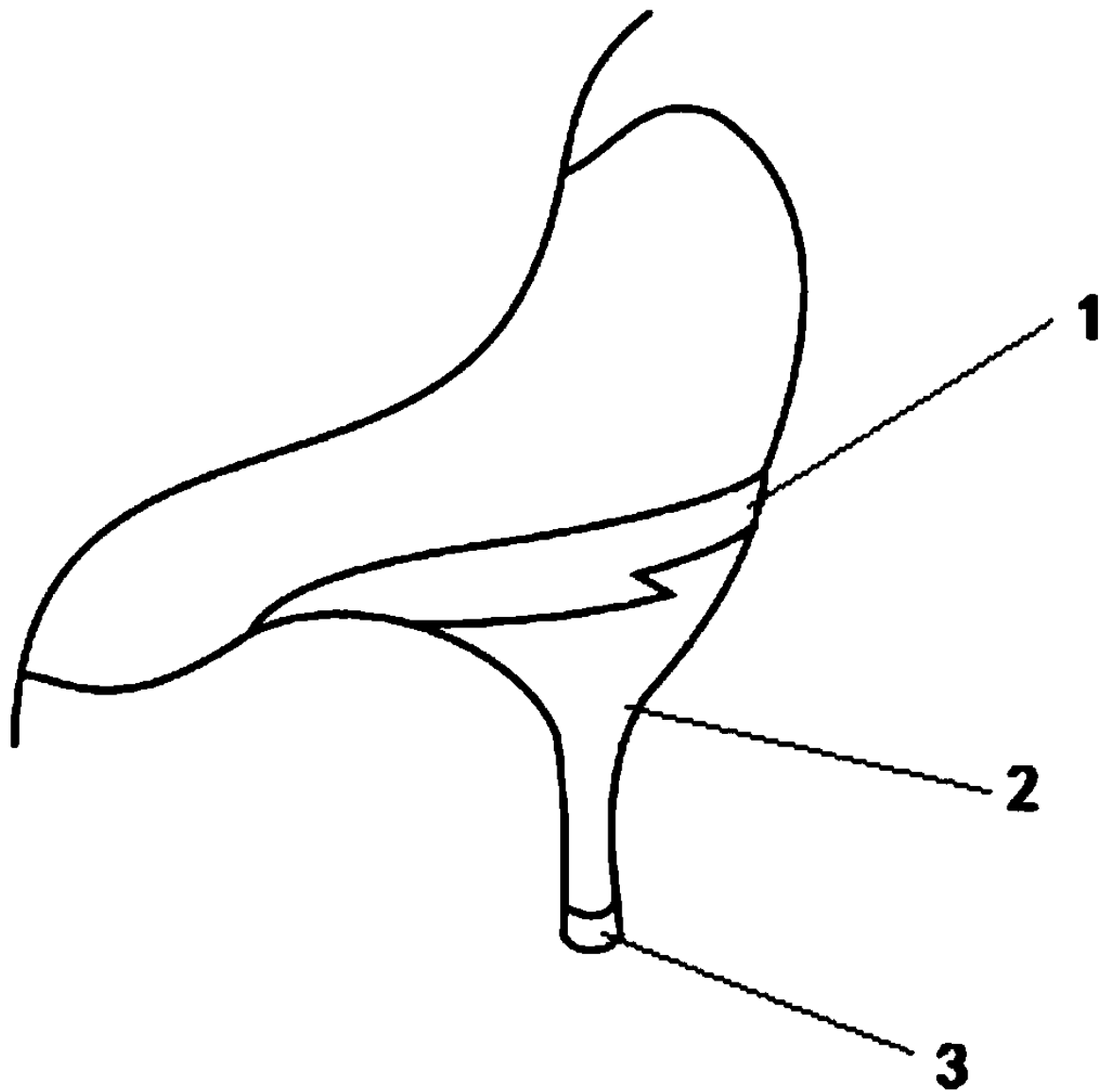
Family 190/432 - FAMPAT - ©Questel

Title

(CN205180534U)

Dismountable high -heeled shoes heel that is difficult for droing

Images

**Publication data including kind & date**[CN205180534](#)

U

2016-04-27

CN205180534U

**Abstract**

(CN205180534)

The utility model discloses a dismountable high-heeled shoes heel that is difficult for dropping, including the fixed part with a replacement portion, fixed part fixed mounting slaps the position behind the sole, can install in the fixed part bottom by the detachability of replacement portion, a direction spout has been set up to fixed part bottom, and direction spout one end is equipped with a department of resist, and the other end is equipped with the opening, and the opening is to the department of resist convergent, relative two inner walls of the direction spout form that contracts from up to down in, can there be the boss with direction spout shape matched with by the top integrated into one piece of replacement portion, can replacement portion push direction spout and fixed part concatenation together through the boss, the utility model discloses an opening of design direction spout is to department of resist convergent, the two inner walls form that contracts from up to down in, and adopts shape and direction spout matched with boss, and the effective assurance of concatenation of boss and direction spout can replacement portion is difficult drops with the fixed part, assurance user's safety.

Inventors

LI BAIMING

PANG MINGJIAN

Latest standardized assignees - inventors removed

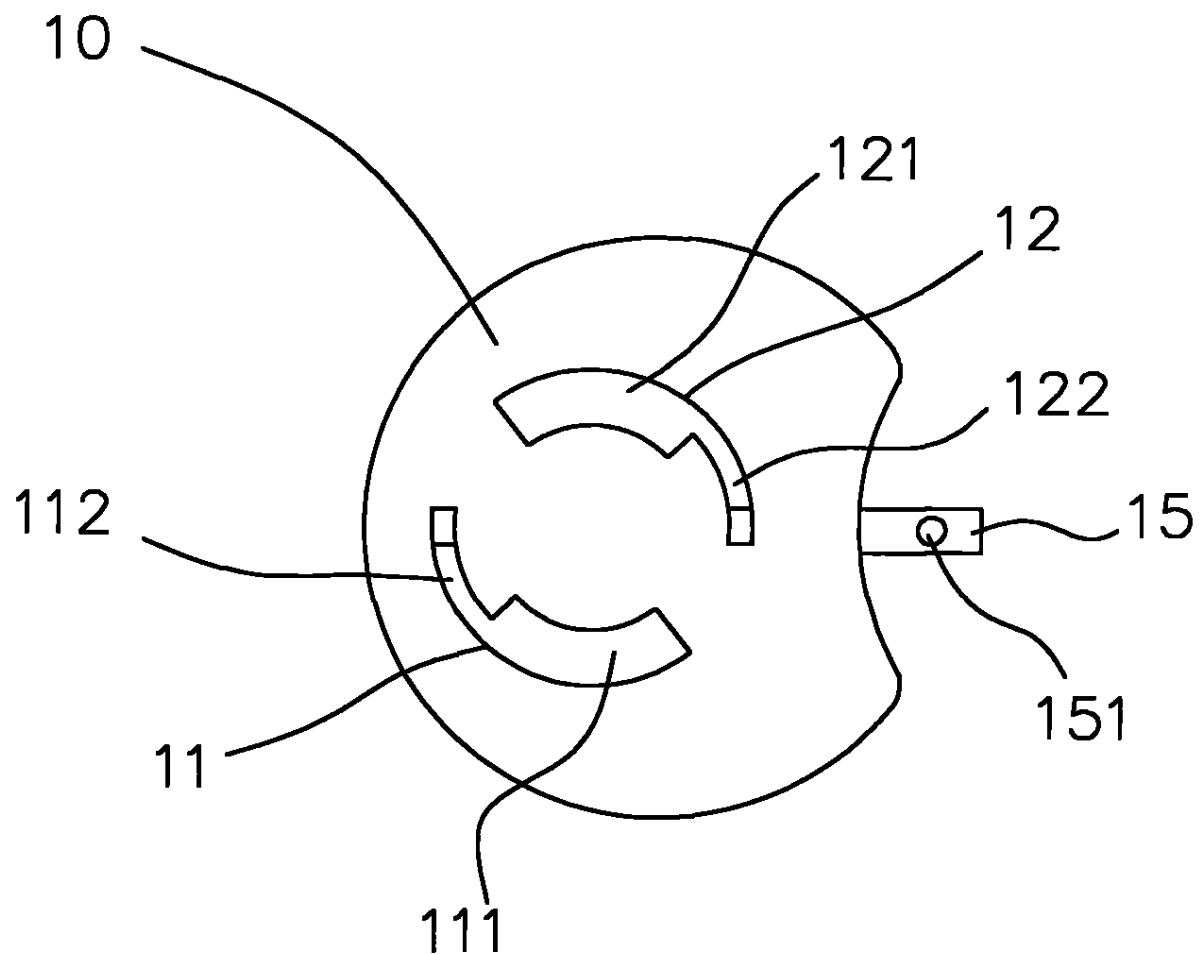
GUANGZHOU YAMI TRADE

Family 191/432 - FAMPAT - ©Questel

Title

(CN201591178U)

Detachable heel of shoe

Images**Publication data including kind & date**[CN201591178](#)

U

2010-09-29

CN201591178U

**Abstract**

(CN201591178)

The utility model relates to a detachable heel of a shoe. The heel comprises a fixed part and a movable part, wherein the upper end of the fixed part is fixedly connected with the sole surface of the shoe; the movable part is detachably arranged below the fixed part in a matching manner; two clamping grooves are formed symmetrically at the lower end of the fixed part; each clamping groove comprises an embedded segment with a wider opening and a clamping segment with a narrower opening; two catches corresponding to the two clamping grooves are arranged at the upper end of the movable part; and the catches are embedded into the clamping grooves through the embedded segments with the wider openings, and are clamped by the clamping segments with narrower openings after being rotated for a certain angle. The detachable heel further comprises a locking mechanism which comprises locking pieces and bolts arranged at the fixed part and the movable part respectively. The catches are matched with the clamping grooves, the fixed part is connected with the movable part in a rotatable clamping manner, and the heel is tightly fastened by the locking device after being installed, so that the whole heel has the advantages of stable structure, convenient replacement, practicality and reliability.

Inventors

LUO JIANXIN

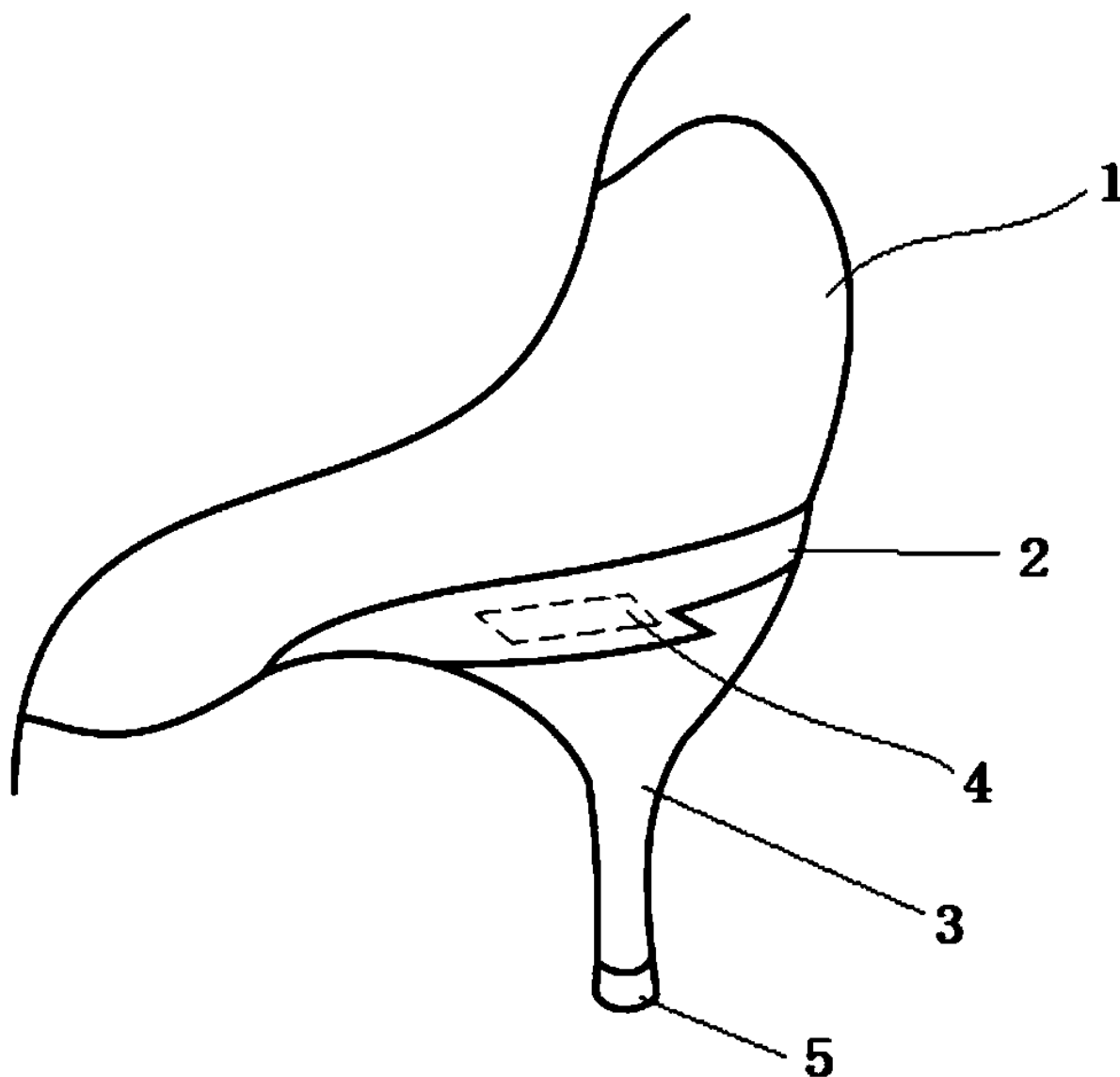
DENG JIANGUO

Family 192/432 - FAMPAT - ©Questel

Title

(CN205072210U)

High -heeled shoes with trigger switch

Images**Publication data including kind & date**

[CN205072210](#)

U

2016-03-09

CN205072210U

**Abstract**

(CN205072210)

The utility model discloses a high -heeled shoes with trigger switch, include that high -heeled shoes body and detachably install in the heel of high -heeled shoes body bottom, its characterized in that, be provided with locking mechanical system between high -heeled shoes body and the heel, locking mechanical system is provided with the trigger switch who is used for untiing locking mechanical system. The utility model discloses a set up the locking mechanical system who has trigger switch between high -heeled shoes body and heel, locking mechanical system can prevent that the heel accident breaks away from with the high -heeled shoes body, improves the safety in utilization of high -heeled shoes, and trigger switch can realize dismantling fast the purpose of heel, the utility model discloses structural design is simple, dismantle, the installation is quick, makes things convenient for the consumer to use.

Inventors

LI BAIMING

PANG MINGJIAN

Latest standardized assignees - inventors removed

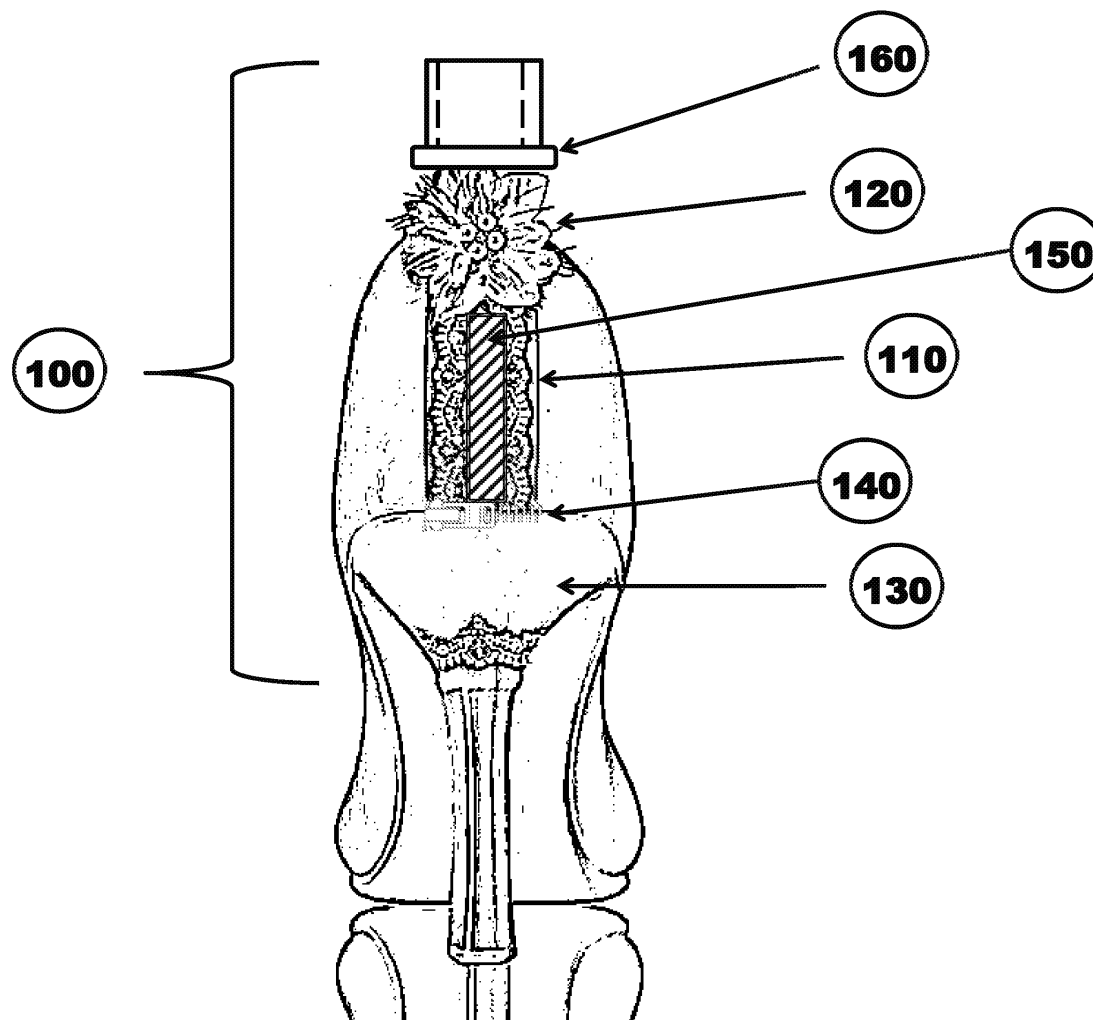
GUANGZHOU YAMI TRADE

Family 193/432 - FAMPAT - ©Questel

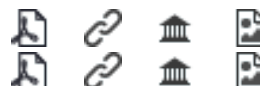
Title

(WO2018204079)

Compact shoe comfort device

Images**Publication data including kind & date**

WO2018/204079	A1	2018-11-08	WO2018204079
US20180310668	A1	2018-11-01	US20180310668

**Abstract**

(WO2018/204079)

The present invention comprises ornamental interchangeable defensive comfort devices for high heeled shoes and low heeled shoes. The defensive compact shoe comfort device has also a unique glow in the dark components which can be included but not limiting to in the bow section of the device making it completely different from any defensive shoe device. The defensive compact shoe comfort device has an elastic band which is used to secure the defensive compact shoe comfort device to the high heel. The elastic band is located at the bottom of the compact shoe comfort device. At the center of the compact shoe comfort device is a decorative bow. The compact shoe comfort device also provides a flap which is inserted into the back of the shoe and keeps the compact shoe comfort secured to the high heel shoe and the back of the foot with comfort because of the gel strip that is attached to the flap of the compact shoe comfort.

Inventors

ARGUETA MORALES MELISSA

DALAL PANKAJ

DALAL KAJAL

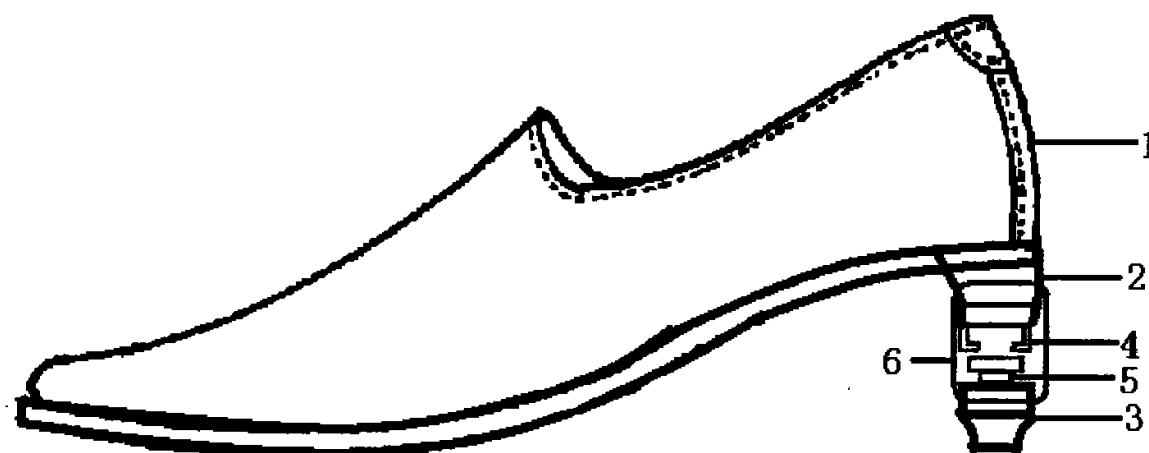
DALAL SURBHI

Family 194/432 - FAMPAT - ©Questel

Title

(CN201219561U)

Shoes with sliding sheet type dismountable heels

Images**Publication data including kind & date**[CN201219561](#)

Y

2009-04-15

CN201219561U

**Abstract**

(CN201219561)

The utility model discloses sliding piece type shoes with dismountable heels, and the heels can be regulated and replaced at any time. Each shoe comprises a shoe body, a fixing heel and a moving heel, wherein a sliding block and sliding groove type device or structure is arranged on the shoe body, the fixing heel or the moving heel, the bottom end of the heel of the shoe body or the bottom end of the fixing heel are fixed with an inserting plate, the sliding block is inserted into the sliding groove or the inserting plate is inserted into a groove to connect the shoe body or the fixing heel and the moving heel, protecting pieces can be surrounded on the periphery of the sliding piece and sliding groove type device or structure and can be optionally disassembled, and one shoe body or the fixing heel can be matched with 1 to 10 moving heels with different styles and heights and can be replaced according to requirements. The utility model is convenient to the trip, the tour and the working requirement of people, in particular to women, and can save cost for enterprises.

Inventors

LIAN BIN

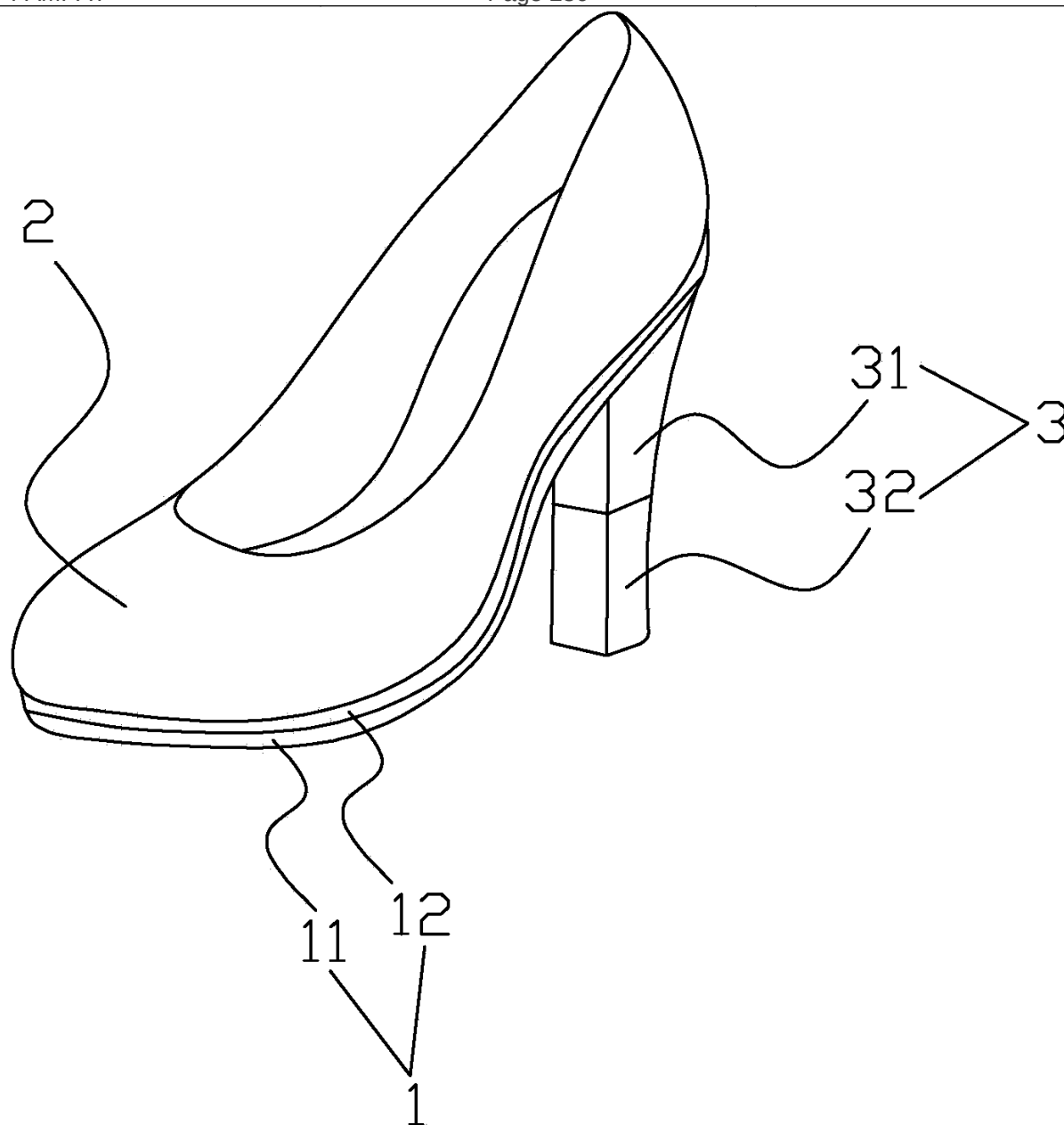
Family 195/432 - FAMPAT - ©Questel

Title

(CN203841191U)

Multifunctional shoe

Images

**Publication data including kind & date**[CN203841191](#)

U

2014-09-24

CN203841191U

**Abstract**

(CN203841191)

The utility model relates to a shoe, and provides a multifunctional shoe which comprises a shoe sole, a shoe upper and a shoe heel. The shoe upper is arranged on the shoe sole, the shoe heel is arranged at the bottom of the shoe sole and is detachably connected with the shoe sole, the shoe sole comprises an abrasion-resistant outsole and an elastic mid-sole, and the elastic mid-sole is arranged on the abrasion-resistant outsole. The multifunctional shoe has the advantages that the shoe heel can be detached, a wearer can wear the multifunctional shoe comfortably, and the multifunctional shoe can be used as a high-heeled shoe and also can be used as a flat shoe.

Inventors

XU YUANZHONG

Latest standardized assignees - inventors removed

XDLONG

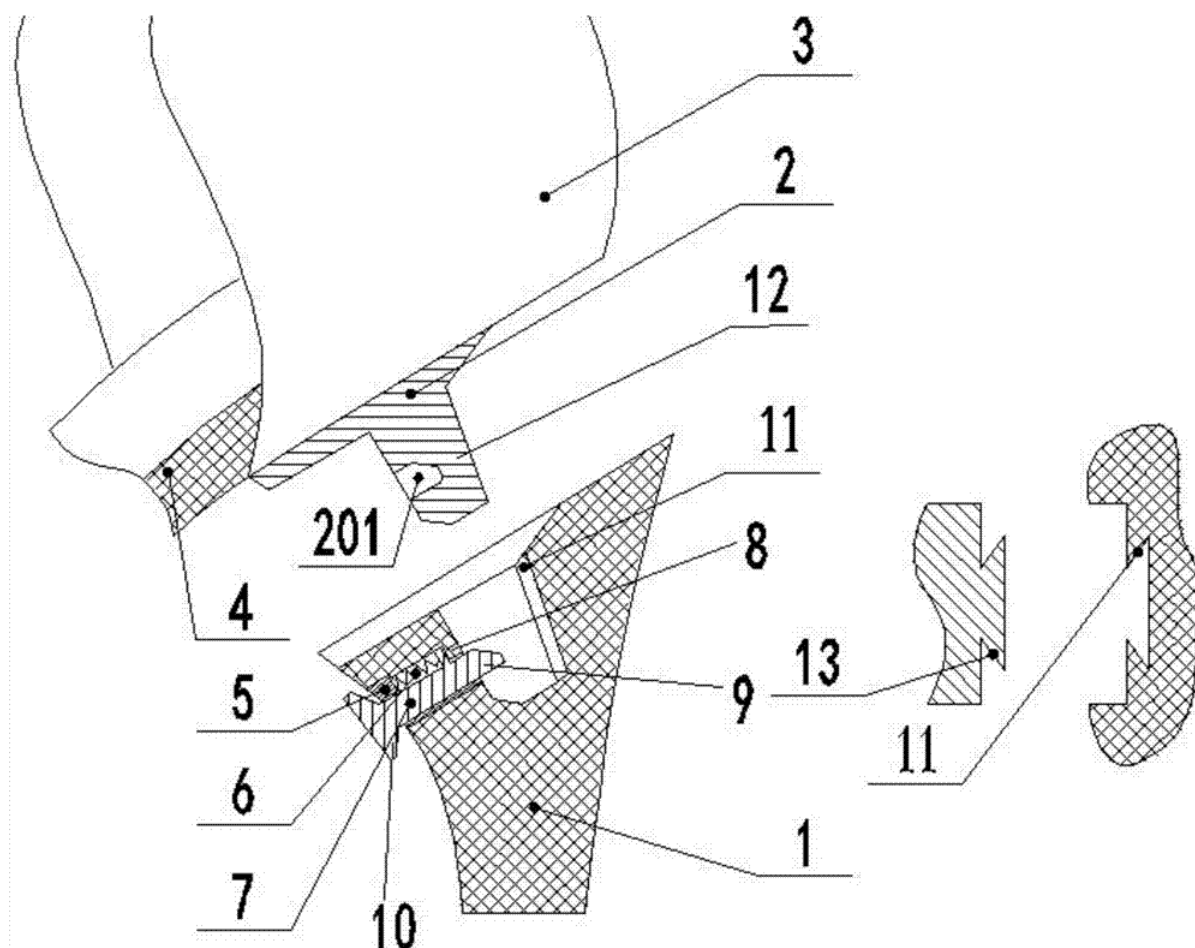
Family 196/432 - FAMPAT - ©Questel

Title

(CN208550186U)

Simple and easy type detachable shoes heel formula high -heeled shoes

Images



Publication data including kind & date

CN208550186

U 2019-03-01 CN208550186U



Abstract

(CN208550186)

The utility model discloses a simple and easy type detachable shoes heel formula high -heeled shoes, including sole and heel, sole and heel between be equipped with and trade with device and buckle device, buckle device is including setting up sole lug on the sole, set up the heel recess on the heel, the sole lug matches with the heel groove phase and sets up, trades with the device including setting up butt joint groove on the sole lug, setting up on the heel joint in the dop of butt joint inslot and order about the dop and break away from the rod structure who docks the groove. The pull headsets up on the surface of the shoes body, and when changing the heel, the operation of need not taking off one's shoes can not be provided with trigger switch because of the sole and lead to the soleto have concave -convex feeling, and it influence that the women wears the travelling comfort of high -heeled shoes or wear out sole skin and head position in shoes body surface face is drawn to injured's problem to arouse, the pull -up is convenient, takes off and trades high -heeled shoes simply swiftly.

Inventors

MA LI

LI XIANGQING

Latest standardized assignees - inventors removed

HANGZHOU JIUBAHONGTU TECHNOLOGY

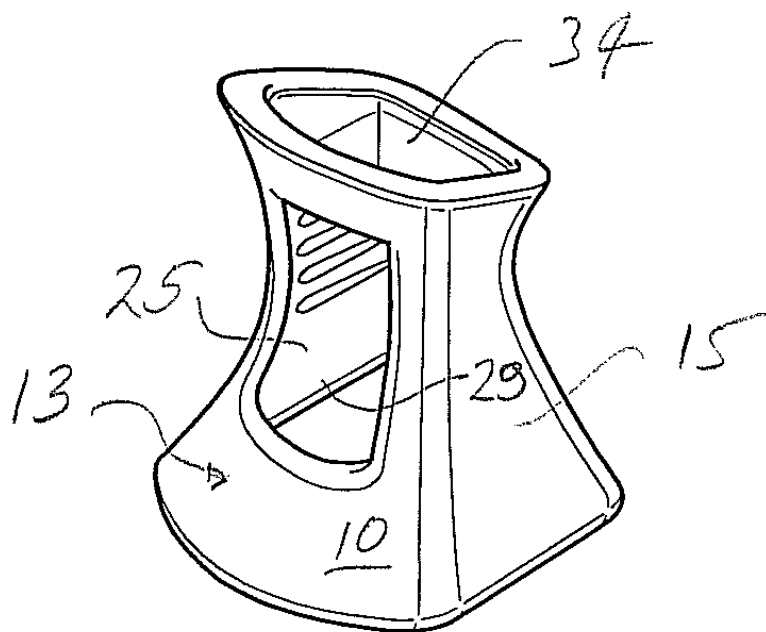
Family 197/432 - FAMPAT - ©Questel

Title

(WO2009139788)

Stabilizing and support accessory for stiletto heels

Images

**Publication data including kind & date**

US8033035	B2	2011-10-11	US8033035
WO2009/139788	A1	2009-11-19	WO2009139788
US20090282702	A1	2009-11-19	US20090282702

**Abstract**

(WO2009/139788)

A slip-on, slip-off stabilizing support accessory for a stiletto heel. The device is a unitary molding of semi-rigid, resilient plastic material formed with a generally hourglass configuration, with outwardly concave, resiliently flexible side walls for frictionally engaging opposite sides of a stiletto heel. An outwardly flared top opening facilitates application of the device to the heel, while an outwardly flaring bottom configuration provides a greatly enlarged ground contact area. Front and back edges of the side walls are of outwardly concave shape. Front and back wall structures, formed by relatively narrow, spaced-apart elements, enable the side walls to be flexed for easy application to heels of various sizes, while firmly gripping heels of the smallest size.

Inventors

BROWN REBECCA P

MURPHY MONICA F

Latest standardized assignees - inventors removed

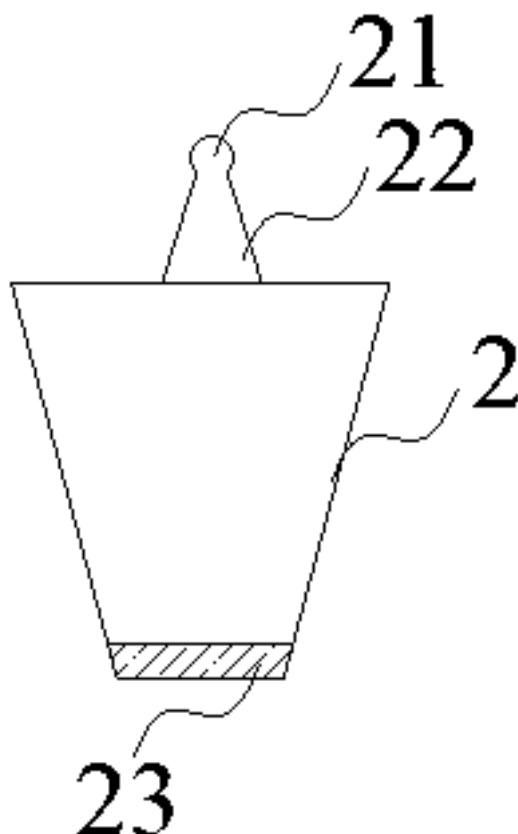
SOLEMATES

Family 198/432 - FAMPAT - ©Questel

Title

(CN203735565U)

High-heeled shoe heel with variable height

Images**Publication data including kind & date**[CN203735565](#)

U

2014-07-30

CN203735565U

**Abstract**

(CN203735565)

The utility model discloses a high-heeled shoe heel with variable height. The heel is used for solving the problem that the existing high-heeled shoe heel is non-variable in height, a user needs to carry low-heeled shoes when the user is tired and replaces high-heeled shoes with the low-heeled shoes, and the low-heeled shoes are inconvenient to carry. The heel comprises a base heel fixedly connected with the root portion of a sole and further comprises an auxiliary heel connected with the base heel in a matching mode. A frustum-shaped protrusion is arranged on the top side of the auxiliary heel, and the top of the frustum-shaped protrusion is fixedly connected with an elastic ball. A frustum-shaped groove is formed in the bottom of the base heel, the frustum-shaped protrusion is interference fit with the frustum-shaped groove, a spherical groove is formed in the top of the frustum-shaped groove, and the spherical groove is matched with the elastic ball. The high-heeled shoe heel is simple in structure, convenient to use and elegant in appearance.

Inventors

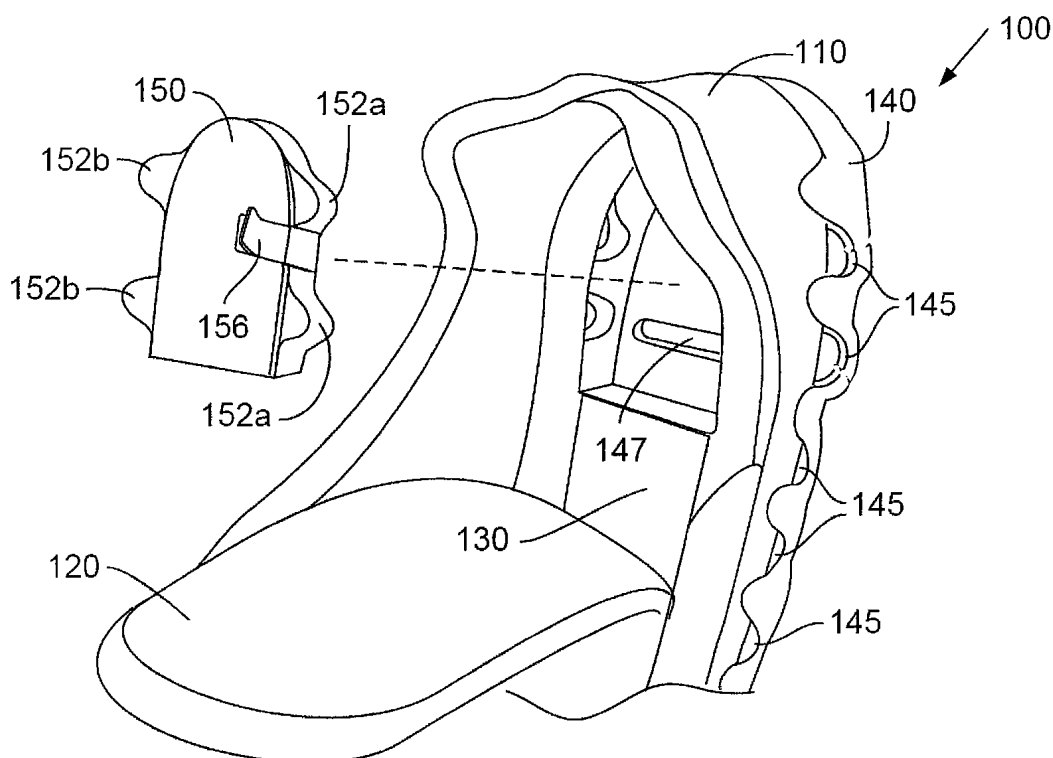
SUN XITONG

Family 199/432 - FAMPAT - ©Questel

Title

(US8220183)

Removable heel pad for foot-receiving device

Images**Publication data including kind & date**

US8453345	B2	2013-06-04	US8453345
US20120255202	A1	2012-10-11	US20120255202
US8220183	B2	2012-07-17	US8220183
US20100186265	A1	2010-07-29	US20100186265

**Abstract**

(US20100186265)

Foot-receiving devices, such as articles of footwear (e.g., athletic footwear, etc.), include a foot-covering member (such as an upper member) and a foot-supporting member (such as a sole member, optionally including insole, midsole, and/or outsole portions) engaged with the foot-covering member. The foot-supporting member may include or define a cavity or void in the heel portion of the foot-receiving device. The foot-receiving device further may include a removable heel pad detachably engaged within the cavity or void.

Inventors

EVANS MARTY
MCMILLAN GRAEME
KIM MOON WON

Latest standardized assignees - inventors removed

NIKE

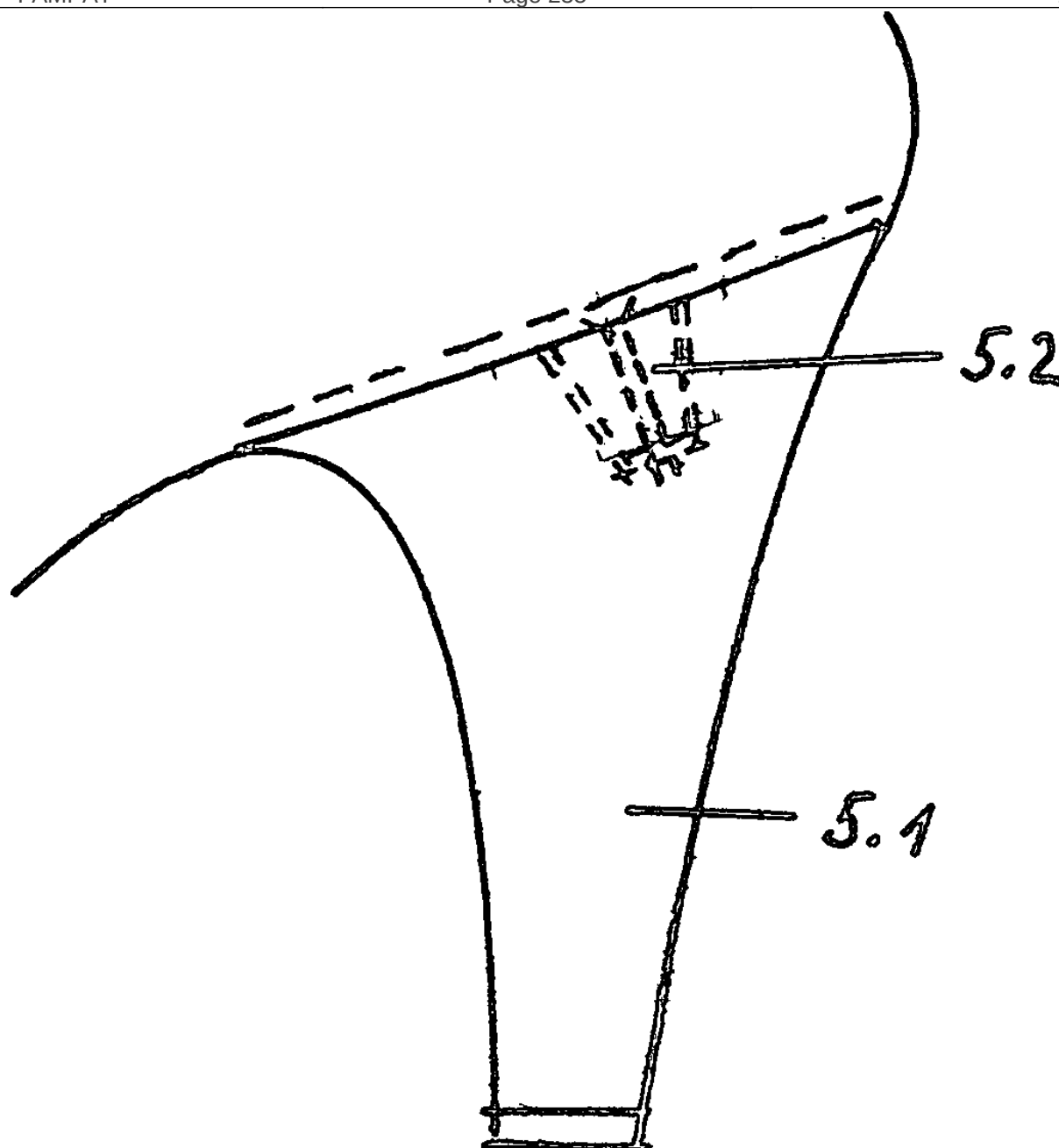
Family 200/432 - FAMPAT - ©Questel

Title

(DE102015016567)

Shoe-shoulder closure for alternate of a shoe heel

Images

**Publication data including kind & date**[DE102015016567](#)

A1 2017-06-14

DE102015016567

**Abstract**

(DE102015016567)

The of me developed shoe heel lock is a novelty, which a rapid changes a step manner. Attraction of the cone in the recess of the heel unit by one unit is formed which produces by screwing the same twisting firm bond of the two parts. Thus the shoe heel each time quickly and easily in color to the respective garment can be adjusted.

Inventors

Antrag auf Nichtnennung

Latest standardized assignees - inventors removed

HAGEN EWALD VON

HAGEN HEIKE MANUELA VON

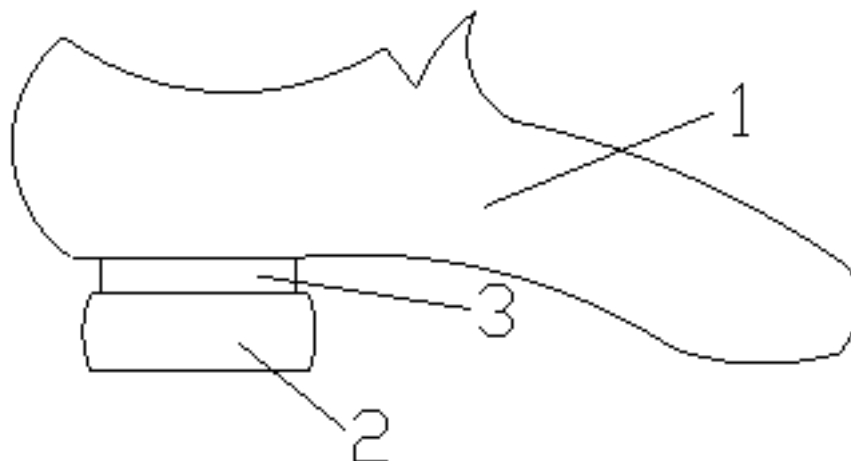
Family 201/432 - FAMPAT - ©Questel

Title

(CN203897446U)

Novel shoes capable of replacing heels

Images

**Publication data including kind & date**[CN203897446](#)

U 2014-10-29 CN203897446U

**Abstract**

(CN203897446)

The utility model discloses a pair of novel shoes capable of replacing heels. The pair of novel shoes comprises shoe bodies, connecting steel plates and heels, wherein each connecting steel plate is connected with each shoe body and each heel; in addition, each shoe body and each heel are respectively arranged on two sides of each connecting steel plate; a plurality of threaded holes are respectively formed in the bottom of each shoe body, each connecting steel plate and each heel; according to each connecting steel plate at the bottom of each shoe body, each heel is fixed on each steel plate at the bottom of each shoe by using screws when a person wants to wear flat shoes or high-heeled shoes, so that the function that the heels can be replaced is achieved.

Inventors

ZHANG HAIYAN

WEI YUZHONG

JIN KEYU

Latest standardized assignees - inventors removed

SUZHOU HAISHENDA MACHINERY TECHNOLOGY

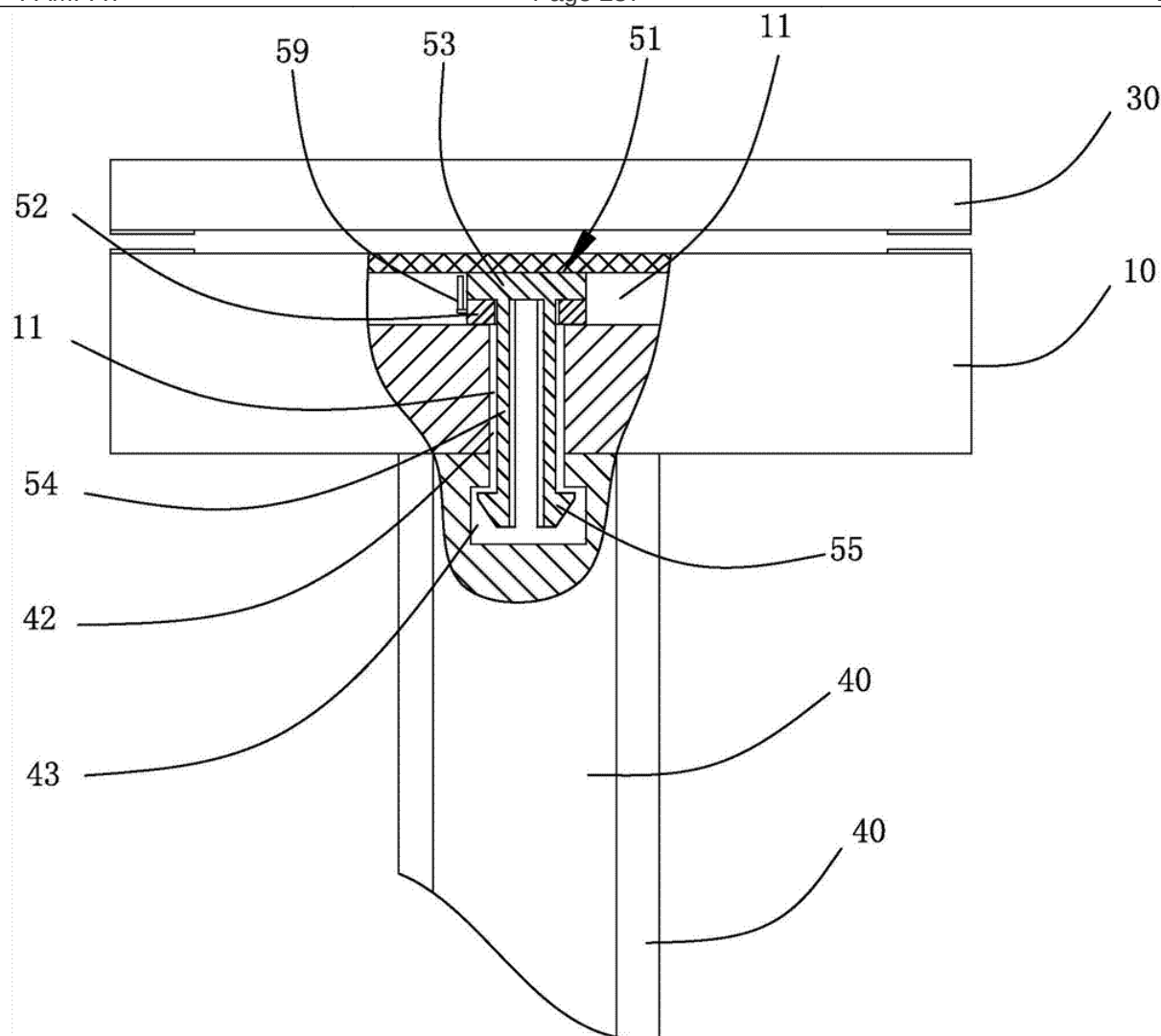
Family 202/432 - FAMPAT - ©Questel

Title

(CN207070922U)

High -heeled shoes with detachable heel

Images

**Publication data including kind & date**

CN207070922

U

2018-03-06

CN207070922U

**Abstract**

(CN207070922)

The utility model provides a high-heeled shoes with detachable heel, includes the sole and installs vamp, lining, heel, the locking part on the sole, and the lining is installed on the sole top surface detachably, and the heel passes through that the locking part is detachable to be installed on the sole bottom surface, soles heels portion sets up an accepting groove, and the accepting groove bottom is provided with the mounting hole, the top surface middle part of heel is provided with the step hole, the step hole is corresponding with the mounting hole, and the step hole is provided with a spacing step face, the locking part includes connecting piece and buckle spare, and the connecting piece includes a boss and set up two connecting portion on the boss bottom surface that in the accepting groove was located to the boss card, the mounting hole was worn to locate by connecting portion and the step is down the hole and the card is located on the spacing step face, buckle spare cover is located on the connecting portion to set up between the bottom surface of boss and accepting groove, the utility model discloses a set up detachable heel to the heel that accessible time will influence the dress is more changed, can change required heel according to the demand simultaneously, and the practicality is strong, has stronger popularization meaning.

Inventors

LI DALIN

Latest standardized assignees - inventors removed

DONGGUAN TERUI HARDWARE PLASTIC PRODUCT

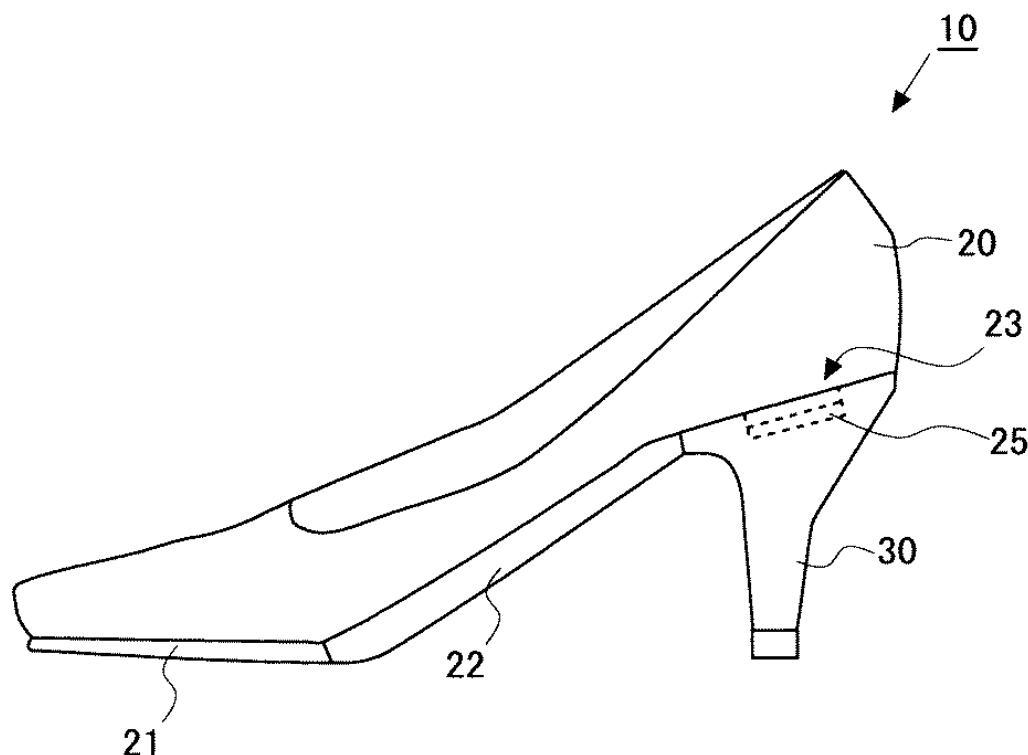
Family 203/432 - FAMPAT - ©Questel

Title

(JP2017189442)

Footwear

Images

**Publication data including kind & date**[JP2017189442](#)

A

2017-10-19

JP2017189442

**Abstract**

(JP2017189442)

PROBLEM TO BE SOLVED: To provide an article of footwear of which heels can be easily and hygienically replaced with various types of heels without requiring professional knowledge.

SOLUTION: In the article of footwear in which a heel is replaceable relative to a footwear body, the footwear body is provided with a heel attaching/detaching part which makes the heel attachable/detachable and which has a nearly projected shape in the cross section. The heel is provided with a fitting groove which is fitted with the heel attaching/detaching part and which has a nearly recessed shape in the cross section, and with a lock means which locks the heel and the heel attaching/detaching part when the heel attaching/detaching part is installed in the fitting groove. Also, the heel attaching/detaching part has an engaging hole for engaging the lock means while the lock means has an engaging part to be engaged with the engaging hole.

SELECTED DRAWING: Figure 1

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Inventors

CHUMA YUKO

Latest standardized assignees - inventors removed

BEAUTY & OBLIGE

Family 204/432 - FAMPAT - ©Questel

Title

(CN104172646)

Shoes with detachable heels

Images**Publication data including kind & date**[HK1203779](#)

A1 2015-11-06 HK1203779

[CN104172646](#)

A 2014-12-03 CN104172646

**Abstract**

(CN104172646)

The invention discloses a pair of shoes with detachable heels. Each shoe comprises a shoe body. Each shoe body comprises a vamp, a shoe insole connected with the vamp and a heel detachably connected with the shoe insole. A heel pad is arranged at the joint of each shoe insole and the corresponding heel, the shoe insole cambered surface of each heel pad and the bottom arc of the corresponding shoe insole have the same curvature, each heel attachment surface and the corresponding heel can be attached in an adaptive mode, and the shoe insoles, the heel pads and the heels can be completely attached together without gaps. The defects that bottom arcs of the shoes cannot be accurate and unchanged due to the fact that the shoes are limited to a traditional shoe making process, when the bottom arcs of the shoes, namely the arcs of the heels are connected with the heels, the shoe bottom arcs and the arcs of the heel attachment surfaces cannot be completely attached are overcome. Stability of the shoe bodies is guaranteed, wearing safety is brought for shoe wearers, and original comfort of the shoe bodies is kept.

Inventors

YE ZHAOQING

Latest standardized assignees - inventors removed

DONGGUAN CHISHING MANUFACTURING

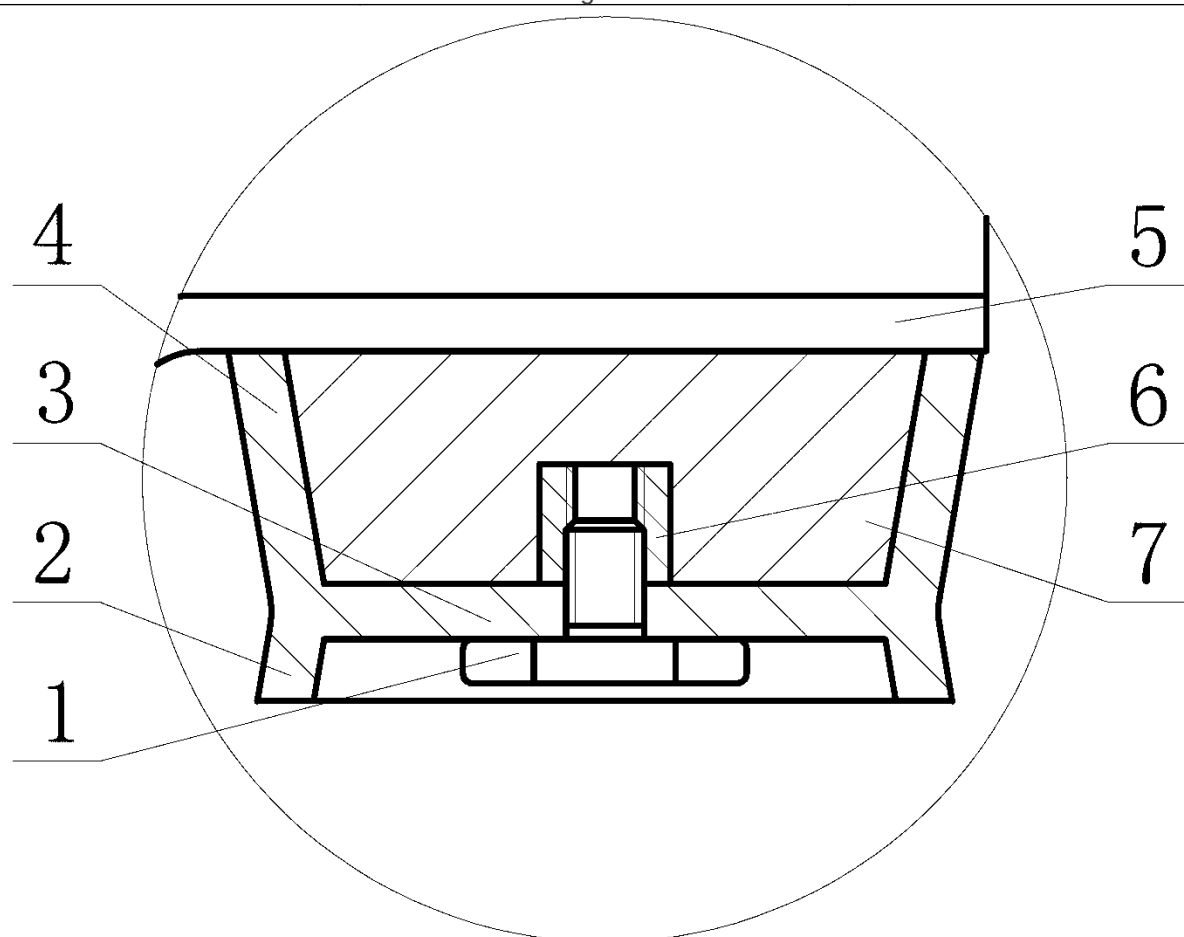
Family 205/432 - FAMPAT - ©Questel

Title

(CN202959054U)

Shoe capable of adjusting height of heelpiece

Images

**Publication data including kind & date**[CN202959054](#)

U

2013-06-05

CN202959054U

**Abstract**

(CN202959054)

The utility model discloses a shoe capable of adjusting the height of a heelpiece. The shoe capable of adjusting the height of the heelpiece comprises the heelpiece (7). The shoe capable of adjusting the height of the heelpiece is characterized in that an adjusting sleeve is composed of a big shell body (4), a small shell body (2) and a connecting plate (3), the big shell body (4) and the small shell body (2) are circular-truncated-cone-shaped shell bodies, the connecting plate (3) is a cylindrical plate, a bolt hole is formed in the middle of the connecting plate (3), the heelpiece (7) is a circular-truncated-cone-shaped body, the conical degree of the inner surface of the big shell body (4) and the conical degree of inner surface of the small shell body (2) are the same as the conical degree of the circular conical surface of the heelpiece (7), a nut (6) is embedded in the middle of the bottom of the heelpiece (7) and the central line of the nut (6) is in the vertical direction, the adjusting sleeve is arranged on the heelpiece (7) and is fixed through the bolt (1) and the nut (6). When the small shell body is sleeved on the heelpiece, the overall height of the heelpiece reaches the greatest height. When the big shell body is sleeved on the heelpiece, the overall height of the heelpiece is the middle height. When the adjusting sleeve is taken down, the overall height of the heelpiece is the smallest height. A user can adjust the height according to the needs.

Inventors

GAO JIYE

Family 206/432 - FAMPAT - ©Questel

Title

(JP05065202U)

Heel of dance shoe cover

Publication data including kind & date[JP5065202](#)

U

1993-08-31

JP05065202U

**Abstract**

(JP5065202)

Dance social female shoe [object] of dances hole when the general, the shoe heel is high in what they want to a smart thin Vereinigte desu. However this shoe gymnasium dance floor of the gymnasium assessed in which it is in order, the beauty of a woman's shoe for consumables in situ without anyone gymnasium can be easily attached to the heel of the shoe can be easily removed to provide a cover of the dance. PURPOSE: Support is provided and a magic tape (1), the tape (2) - shaped U other shapes, having a tip to the bottom of the (4) magic tape (3) is provided, at (2) both ends and a magic tape (3) is provided.

Inventors

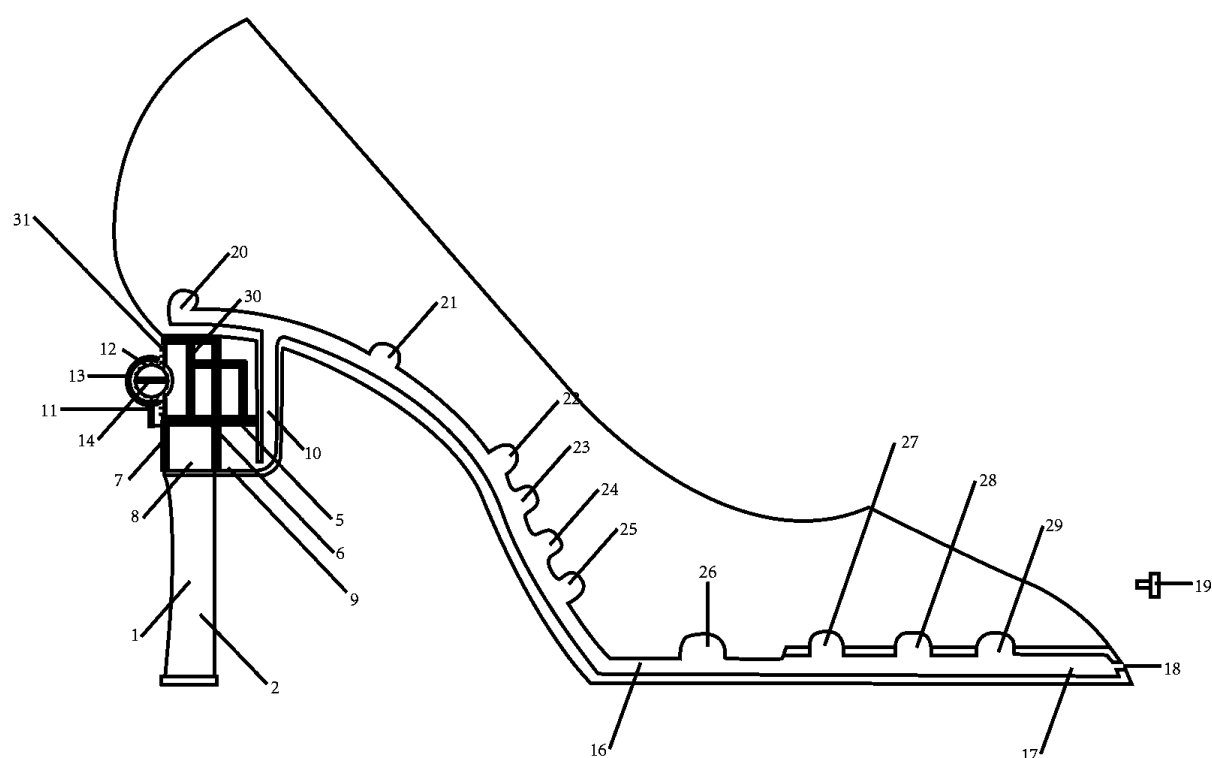
AKUI HIROSHI

Family 207/432 - FAMPAT - ©Questel

Title

(CN204091126U)

Health care high-heeled shoe with adjustable shoe heel

Images**Publication data including kind & date**[CN204091126](#)

U

2015-01-14

CN204091126U

**Abstract**

(CN204091126)

The utility model relates to a health care high-heeled shoe with an adjustable shoe heel. The health care high-heeled shoe is characterized by being composed of an adjustable high-heeled portion, an adjustable shoe heel receptor portion, a heightening power portion and a health care massage portion. A wearer can rotate a folding non-adjustable wrench to drive heightening teeth through a heightening gear to heighten the shoe heel, and to drive a compression piston through the heightening gear to move inside a compression bin, and the height of the half sole can change along with changes of the height of the shoe heel. The health care high-heeled shoe has the advantages of being easy to operate, convenient to use, practical and high in comfort level, being provided with a hydraulic or pneumatic buffering structure, and being capable of effectively buffering impact force on the foot when the wearer walks. Meanwhile, due to the cyclical movement in the walking process, a hydraulic or pneumatic acupuncture point cushion fixed into the insole can move up and down, and the foot acupuncture point health care massaging function is achieved.

Inventors

SUN YUANFENG

SUN YUANXIN

SUN ZIHAN

Latest standardized assignees - inventors removed

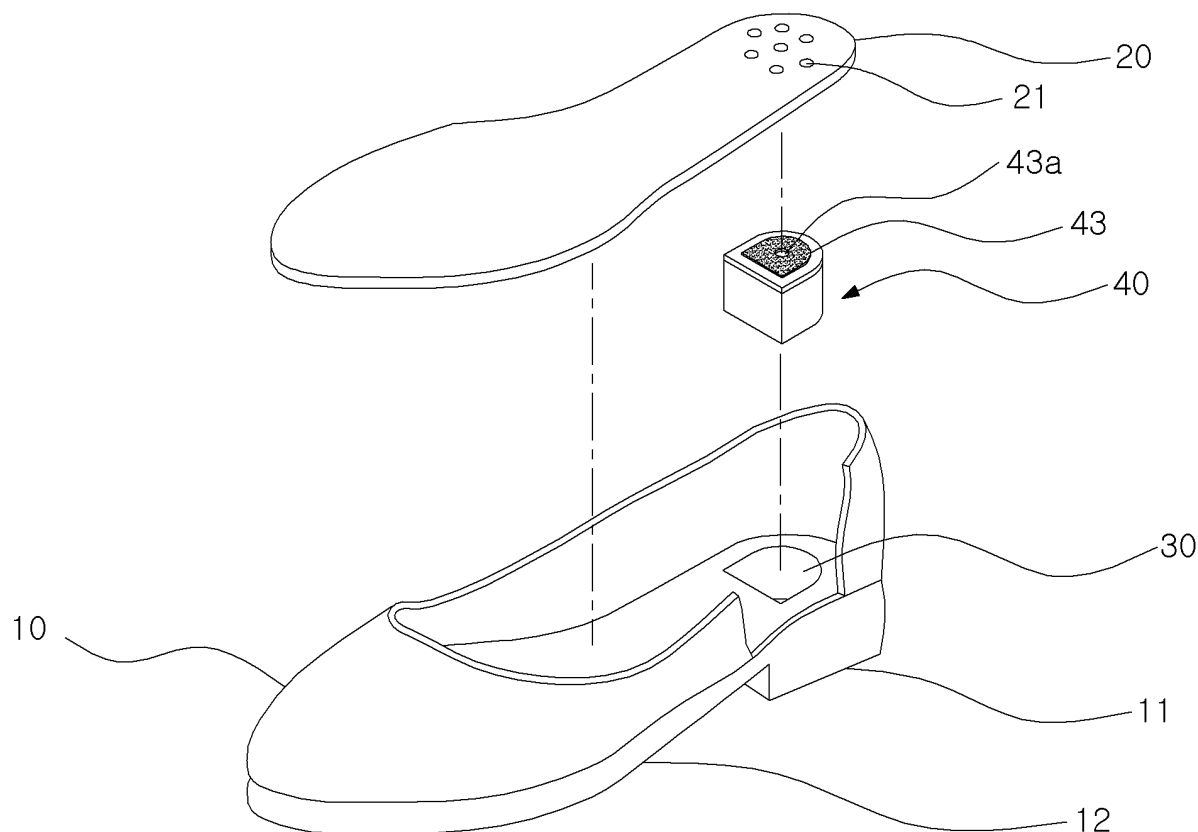
ZIHAN TECHNOLOGY

Family 208/432 - FAMPAT - ©Questel

Title

(KR200475071U)

Shoes having damping element

Images**Publication data including kind & date**

KR200475071	Y1	2014-11-10	KR200475071U
KR20110009320	U	2011-10-04	KR20110009320U

**Abstract**

(KR20110009320)

This invention relates to a bottom surface of the heel cushioning the impact of the absent or removed removable cushioning member may be provided as a footwear and, more particularly, the heel of the shoe bottom can be mounted selectively buffer being absent, absent buffer for mounting to the structure of the heel in a simple and easy to manufacture, the buffer member cushioning structure constituted only of claim, easy repair and replacement with a removable cushion member of the footwear. For this purpose the present invention comprises, in the form of a recess formed in the bottom of the heel (11) and composition, the surface facing the inner surface of the insole (12) 1 of Velcro (22) are attached to the first receiving groove (30); open top is formed of elastic material in the case (41) where a cover (42) body (31, 32) to form the insertion and for detachably receiving groove (30), the spring (44) is made of elastic spring body (31, 32) to support (50) the extrapolation state (41b) are housed in the internal space of the vertical upright and compact the receipt, the receiving groove (30) on a top surface 1 of the first to third Velcro (22) Velcro coupling 2 may be a Velcro (43) attachment, touches the bottom surface of the support plate (33) is attached to the ground; buffer member (40) and configured to.

Inventors

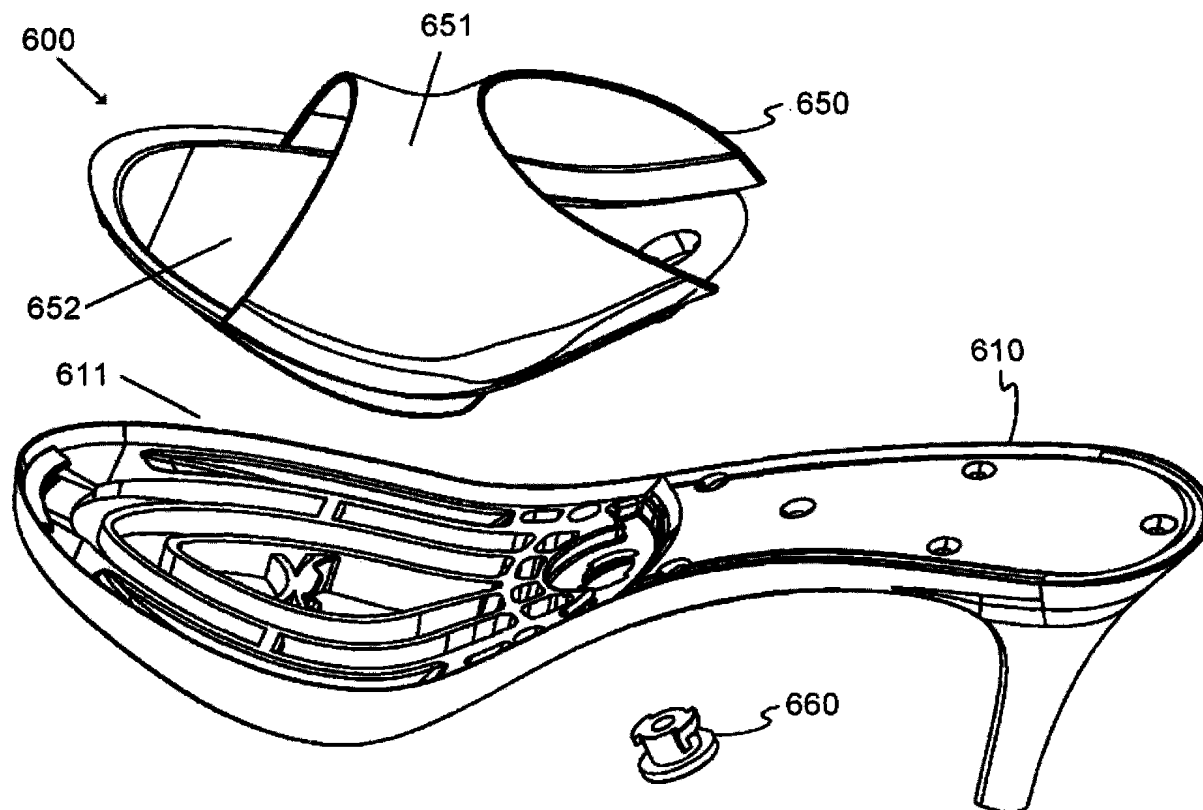
GO, JONG-TAEK

Family 209/432 - FAMPAT - ©Questel

Title

(CN104106867)

Transformable shoe and use method thereof

Images**Publication data including kind & date**[CN104106867](#)

A

2014-10-22

CN104106867

**Abstract**

(CN104106867)

The invention discloses a transformable shoe. The transformable shoe comprises a shoe sole (610), a shoe upper (650) and a clamp member (660). The shoe sole (610) is provided with a shoe upper connecting recess (611). The shoe upper (650) is composed of a banding part (651) and a shoe upper connecting member (652). The left end and the right end of the shoe upper connecting member (652) are respectively provided with a sewing portion (653) undetachably connected with the banding part (651) by sewing or adhesives, the shoe sole (610) is provided with a step through hole (612) providing operating space for the clamp member (660). The shoe upper (650) is mountably and demountably connected with the shoe upper connecting recess (611) of the shoe sole (610) by the clamp member (660). The banding part (651) is capable of supplying various different appearance design and fashion sense so as to meet needs of different places. A user has no need to carry multiple pairs of shoes to meet needs of different places, the transformable shoe can save luggage storage spaces required for carrying and storing multiple pairs of shoes when the user goes out.

Inventors

HE DIAN

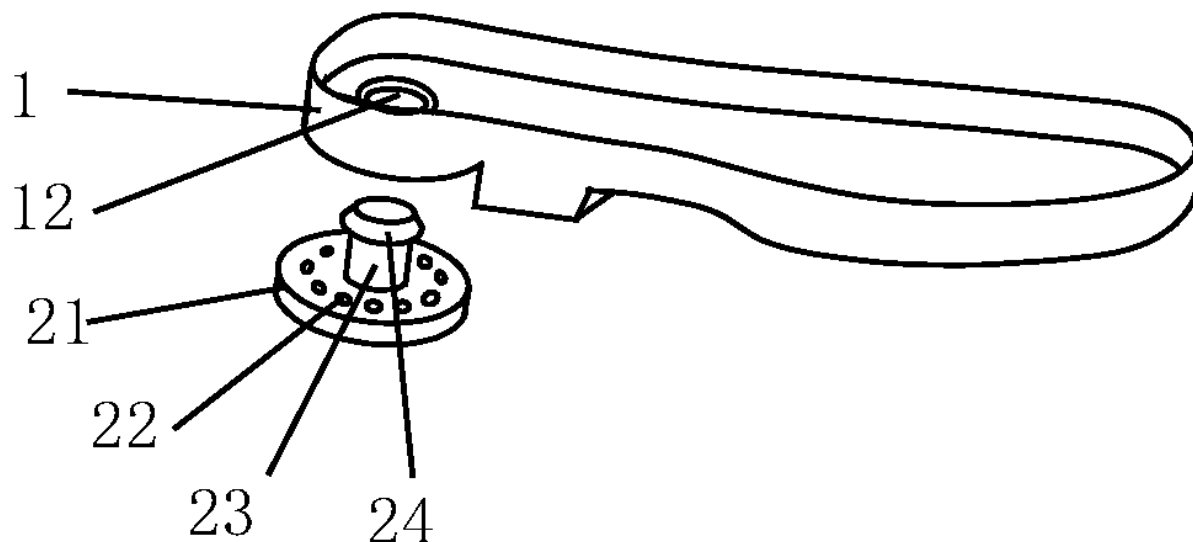
Family 210/432 - FAMPAT - ©Questel

Title

(CN203446697U)

Shoe sole with function of prolonging service life

Images

**Publication data including kind & date**

CN203446697

U

2014-02-26

CN203446697U

**Abstract**

(CN203446697)

The utility model discloses a shoe sole with the function of prolonging the service life. The shoe sole comprises a shoe sole body. A through hole is formed in an upper heel part of the shoe sole body. The shoe sole further comprises a rotatable lower heel. The lower heel is cylindrical. A rotating shaft is arranged at the center of the lower heel. The top of the rotating shaft is a cone. The maximum diameter of the cone is larger than the inner diameter of the through hole. When the cone of the lower heel is inserted into the through hole with great force and exposed, the lower heel and an upper heel form a tight connecting structure, a plurality of circular arc convex blocks are arranged on the upper cylindrical surface of the lower heel, arranged on the same circumference and evenly distributed, and correspondingly circular arc concave blocks matched with the circular arc convex blocks are arranged on the bottom surface of the upper heel. Preferably, the height of the circular arc convex blocks is 0.5mm. In order to further prolong the service life, a wear resistant layer is arranged at the bottom of the lower heel. The shoe sole has the advantages of being simple in structure, low in cost, convenient to adjust, environmentally friendly and comfortable in feeling and has the function of prolonging the service life.

Inventors

ZHOU HAIBO

ZHENG JINGUANG

Latest standardized assignees - inventors removed

WENZHOU ZHENGUANG SHOES MATERIAL

Family 211/432 - FAMPAT - ©Questel

Title

(EP2645895)

Athletic shoe having cleats

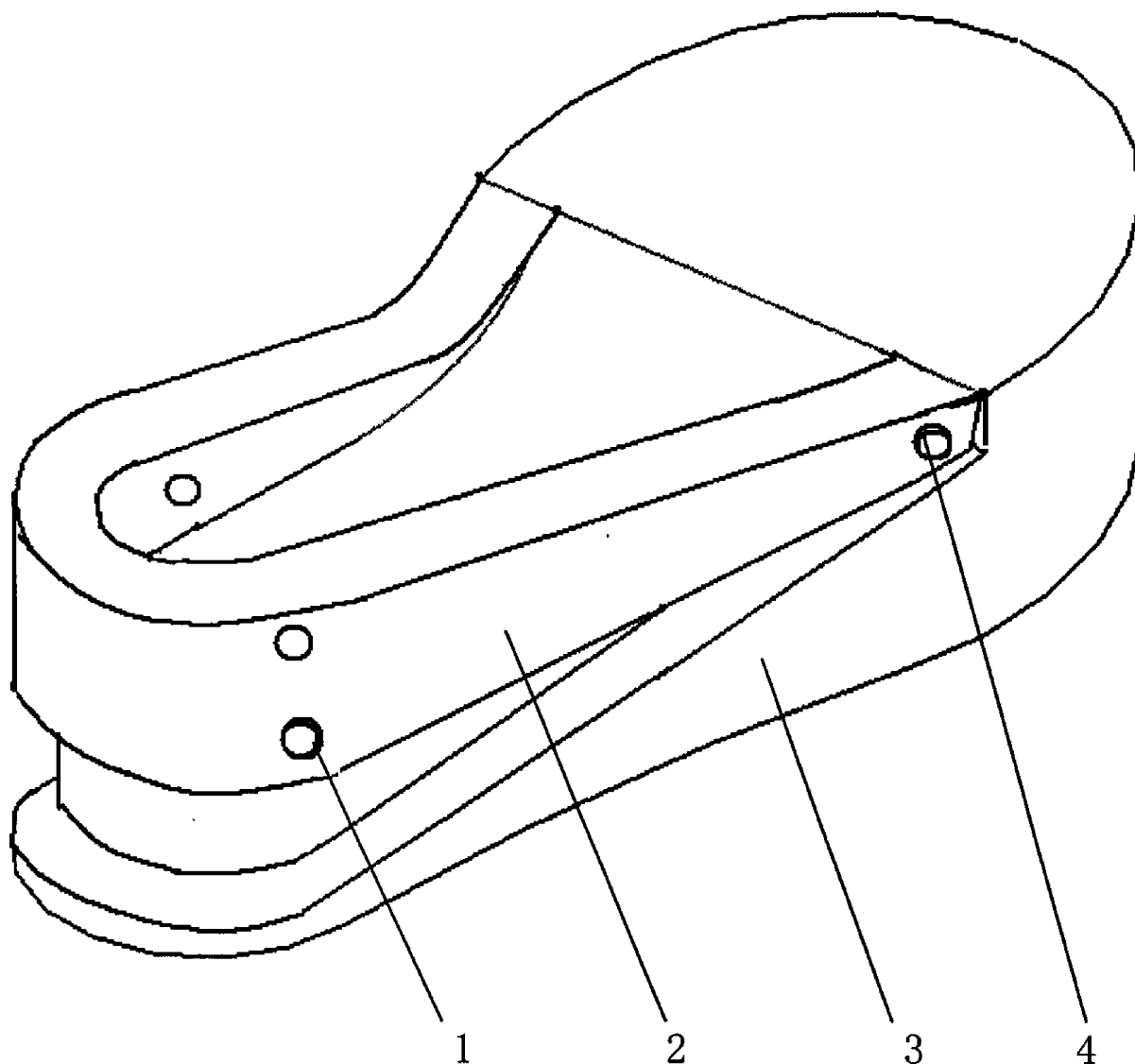
Images

Family 212/432 - FAMPAT - ©Questel

Title

(CN203467800U)

Shoe sole capable of adjusting height of heel

Images**Publication data including kind & date**[CN203467800](#)

U

2014-03-12

CN203467800U

**Abstract**

(CN203467800)

The utility model provides a shoe sole capable of adjusting the height of a heel, and belongs to articles of daily use. The shoe sole capable of adjusting the height of the heel aims to resolve the technical problem of conversion between flats and high heels and meets the different requirements for the height of the heel of people. The shoe sole capable of adjusting the height of the heel comprises a first conical pin, a movable heel, a fixed heel and a second conical pin, and is characterized in that the left side and the right side of the movable heel are respectively provided with three cylindrical holes, the left side and the right side of the fixed heel are respectively provided with two cylindrical holes, and the movable heel is installed on the fixed heel through the second conical pin and can rotate around the second conical pin; when the movable heel rotates to a lower position, the first conical pin is inserted, and then a flat heel is obtained; the first conical pin is pulled out, the movable heel is rotated to a higher position, the cylindrical holes in the movable heel are aligned at the cylindrical holes in the fixed heel, the first conical pin is inserted, and then a high heel is obtained.

Inventors

TANG XIAOLIAN

CHEN LIAOJUN

Latest standardized assignees - inventors removed

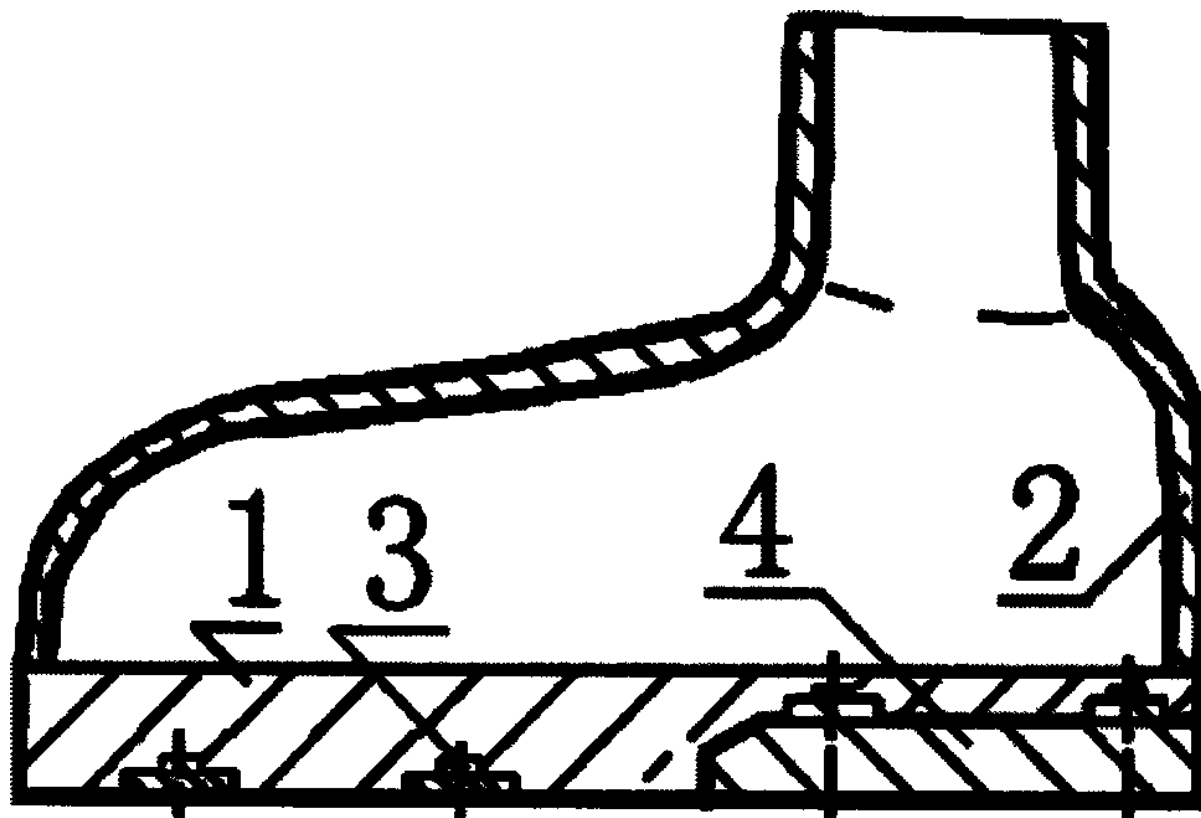
NANJING COLLEGE OF CHEMICAL TECHNOLOGY

Family 213/432 - FAMPAT - ©Questel

Title

(CN202774405U)

Variable-sole height damp-proof shoes

Images**Publication data including kind & date**[CN202774405](#)

U

2013-03-13

CN202774405U

**Abstract**

(CN202774405)

The utility model discloses a pair of variable-sole height damp-proof shoes, which respectively consists of a sole 1, an upper 2, cylinder plungers 3 and a movable heel 4. Each sole 1 consists of two planes with different heights; the sole part in the front of each arch is a ground plane 12; the heel part at the rear of the corresponding arch is an off-ground plane 13; each ground plane 12 and each off-ground plane 13 are respectively provided with circular truncated cone-shaped blind holes 11 of which the dimensions are equal and the interiors are small and the exteriors are large; the cylinder plungers 3 and the blind holes 11 are in transition fit; and each movable heel 4 is provided with cylinder plungers 41 of which the dimensions are equal to that of the cylinder plungers 3. As the forward shifting of the movable heels 4, the half-sole thickness of the shoes is further increased, and therefore, the possibility that the shoes are moistened can be greatly reduced.

Inventors

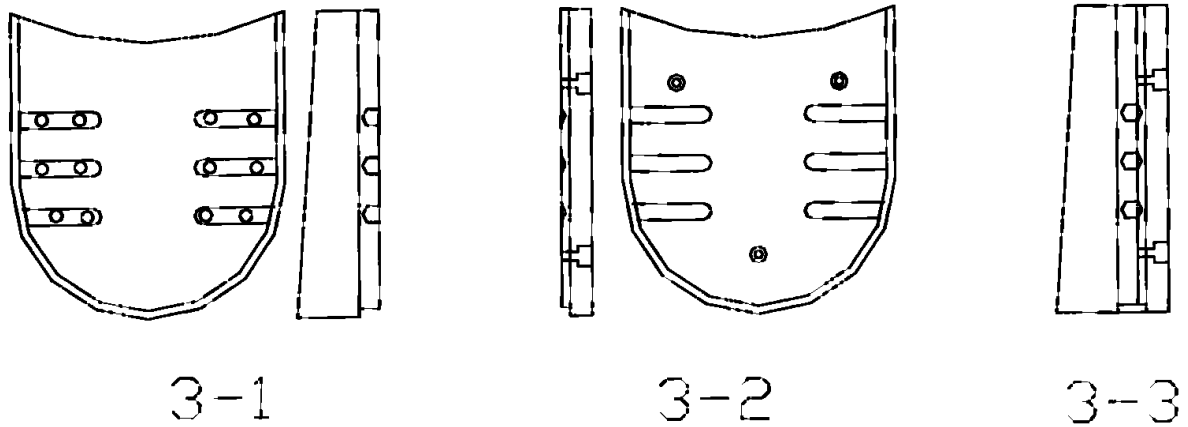
ZHOU SHUANG

Family 214/432 - FAMPAT - ©Questel

Title

(CN201204991U)

Shoes with removable sole

Images**Publication data including kind & date**[CN201204991](#)

Y

2009-03-11

CN201204991U

**Abstract**

(CN201204991)

The utility model discloses a shoe with the sole being replaceable, which comprises a sole and a replaceable layer, wherein, the size of the replaceable layer is matched with the sole, and the replaceable layer is fixedly connected with the sole. The sole is composed of a replaceable layer sole; when the sole is worn away, a new sole layer can be conveniently replaced, thereby being beautiful and prolonging the service life of the shoes, and saving the resource. At the same time, a ventilation hole is arranged on the replaceable layer, thereby preventing the perspiration of the feet caused by the non-flowing of the air in the shoes, and having a healthcare effect on the human body.

Inventors

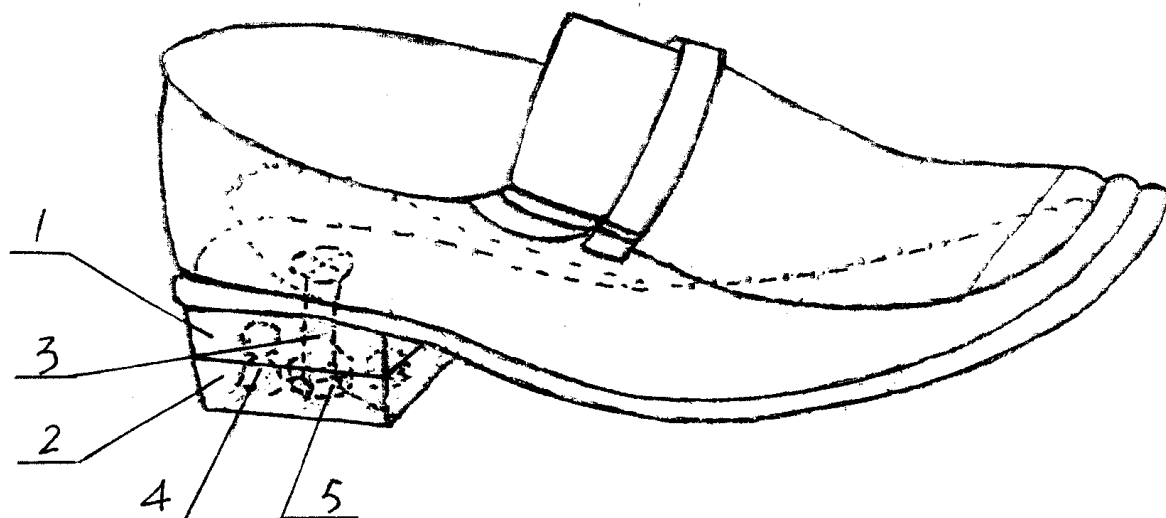
DENG ZHIQIANG

Family 215/432 - FAMPAT - ©Questel

Title

(CN201051904U)

Detachable changeable type heel

Images**Publication data including kind & date**[CN201051904](#)

Y

2008-04-30

CN201051904U

**Abstract**

(CN201051904)

KR100693282

B1 2007-03-05 KR100693282

Abstract

(KR100693282)

A shoe having a detachable heel is provided to reduce the number of unnecessary components, to be exchanged, to be easily detachable, and to be used for various uses. In the shoe having a detachable heel, a coupling recess(110) to be coupled with a heel(200) is formed in the heel portion of a sole(100). A guide member(120) is formed along the edge of both sides and rear of the coupling recess(110). A holding member(130) is mounted on the front side of the coupling recess. In the front portion of the bottom surface of the heel, a holding recess to be coupled with the holding member is formed. A holding part(230) to be coupled with the guide member is formed on the right, left and rear sides of the upper part of the heel. The sole and the heel are coupled by the coupling recess of the sole and the coupling unit formed on upper surface of the heel.

Inventors

SEO, WOO SEUNG

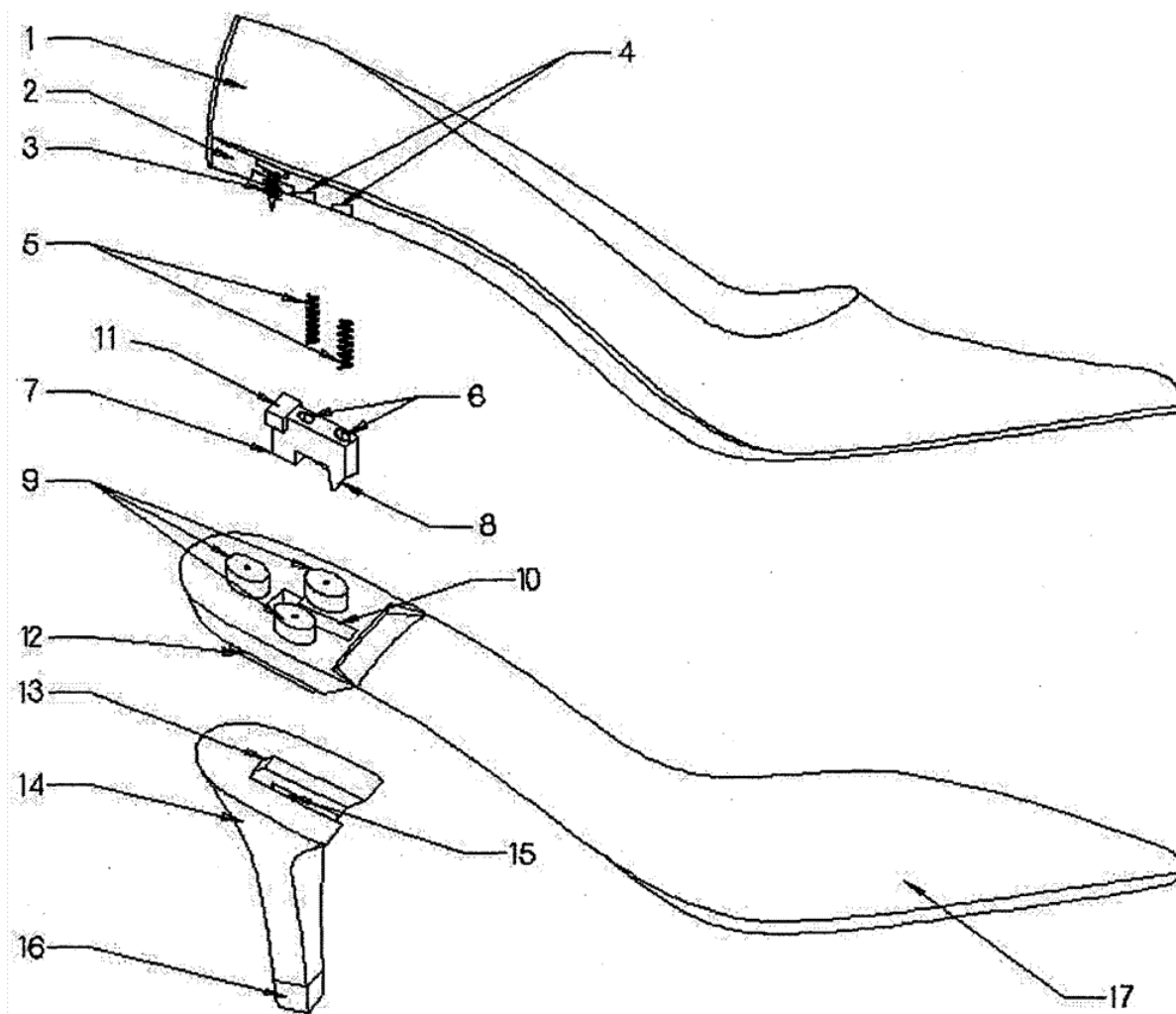
LEE, CHUL JANG

Family 217/432 - FAMPAT - ©Questel

Title

(CN208228445U)

Trade with shoes with door type is with round pin

Images**Publication data including kind & date**

CN208228445

U 2018-12-14 CN208228445U

**Abstract**

(CN208228445)

The utility model provides a trade with shoes with door type is with round pin, includes the vamp, with the integrative insole of vamp, the insole below is equipped with the film, the film below is equipped with the detachable heel, the heel department of film is equipped with runs through the mounting groove of film, heel top be equipped with with the mounting groove correspond from top to bottom with the cotter way, a type that is equipped with on the mounting groove is with the round pin, one end with the round pin is equipped with the fixed pin, be equipped with with the round pin other end and unload with the button, install with the round pin in the time of in the mounting groove, the fixed pin stretches with in the cotter way, unload and extend to with the button the heel is outside, suppress with being equipped with above the round pin spring with the round pin. Profitable effect: simple structure, convenient operation, greatly reduced manufacturing cost.

Inventors

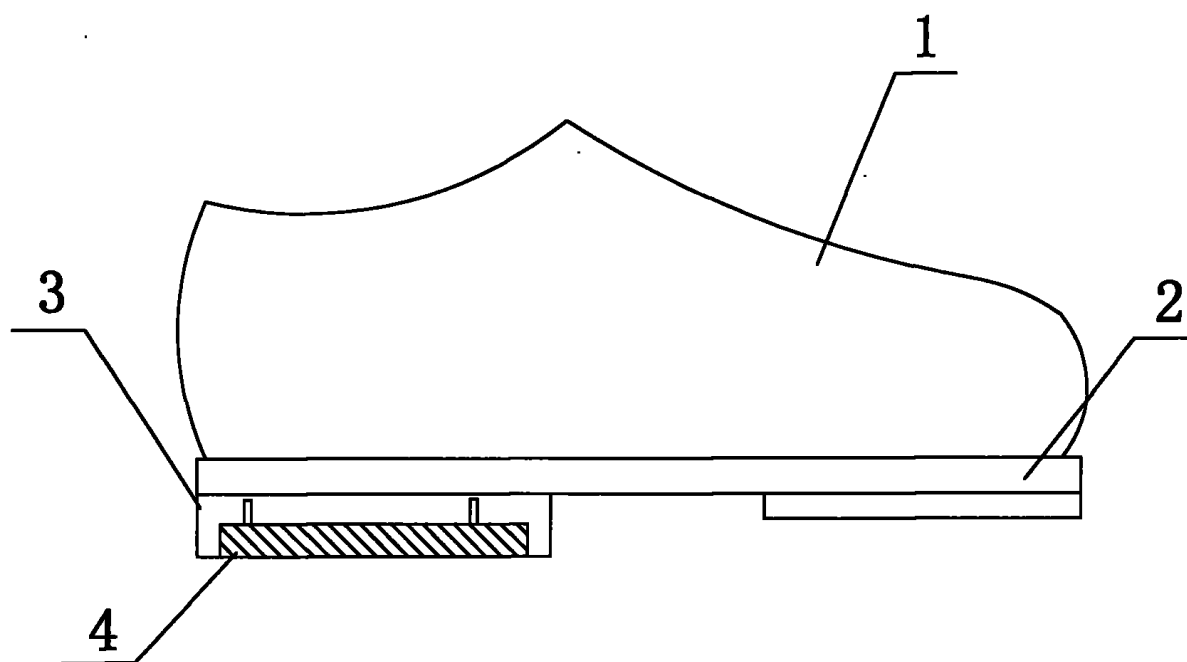
XIAO SHUNCAI

Family 218/432 - FAMPAT - ©Questel

Title

(CN201563735U)

Shoe capable of replacing wear resistance layer

Images**Publication data including kind & date**[CN201563735](#)

U 2010-09-01 CN201563735U

**Abstract**

(CN201563735)

The utility model discloses a shoe capable of replacing a wear resistance layer, which belongs to the shoes of light industrial products or daily life articles. The shoe comprises a shoe vamp (1), a shoe bottom (2) and a shoe heel (3), wherein the shoe vamp (1) is fixed above the shoe bottom (2), the shoe heel is fixed under the shoe bottom (2), the shoe heel is a round step hole shoe heel (3), the bottom surface of the round step hole shoe heel (3) is provided with a downwards opening head and is provided with a round step with a dismountable wear resistance layer (4), screw holes are arranged on the round step, and the dismountable wear resistance layer (4) is arranged on the shoe heel through screws. After various dismountable wear resistance layers combined and arranged on the shoe sole or the shoe heel are abraded to a certain degree, the abraded part can be converted by users or the wear resistance layer can be simply dismounted and replaced by the users, the shoe heel can restore the smooth and beautiful appearance without influencing the wearing effect, in addition, the structure is simple, and the utility model is applicable to industrial production and can be easily popularized.

Inventors

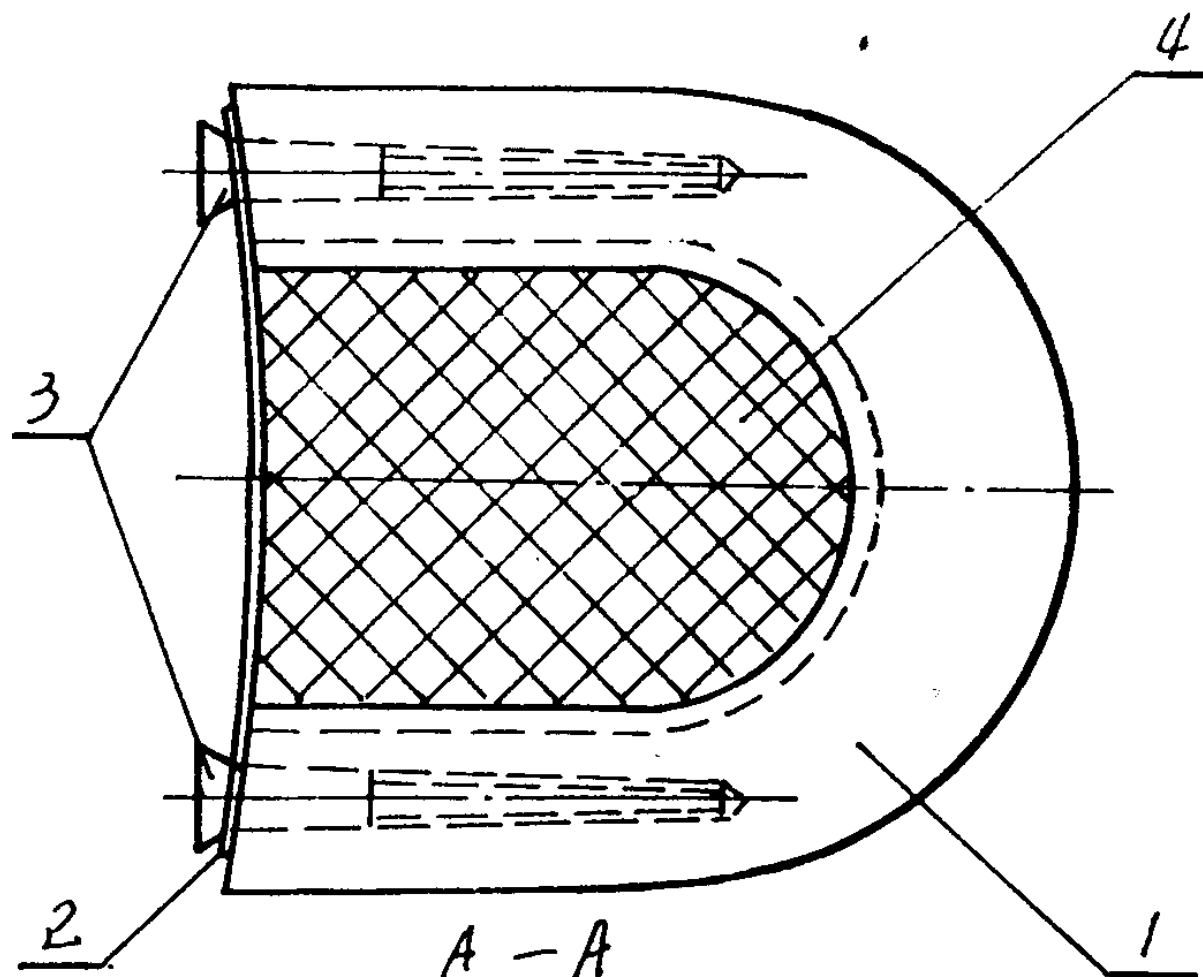
ZHANG LIANGCHEN

Family 219/432 - FAMPAT - ©Questel

Title

(CN2110391U)

Changeable shoe heels

Images**Publication data including kind & date**

CN91220913	Y	1993-05-26	CN91220913U
CN2110391	U	1992-07-22	CN2110391U

**Abstract**

(CN2110391)

The utility model relates to a changeable shoe heel. The changeable shoe heels comprise an upper heel (3) and a lower heel (1). The upper heel (3) is connected with the upper heel (3) by a rebate, two dovetail grooves in a lateral embedded type and single dovetail groove in a rear embedded type respectively. Then the upper heel (3) is consolidated with the upper heel (3) by steel nails or opening screws. The utility model overcomes the defects that leather shoes, especially high-grade leather shoes whose shoe heels are abraded, are difficult to put on and are unsightly. As a result, the service life of the leather shoes is prolonged and the utility model is beneficial to human health.

Inventors

XIA ZHIQIANG

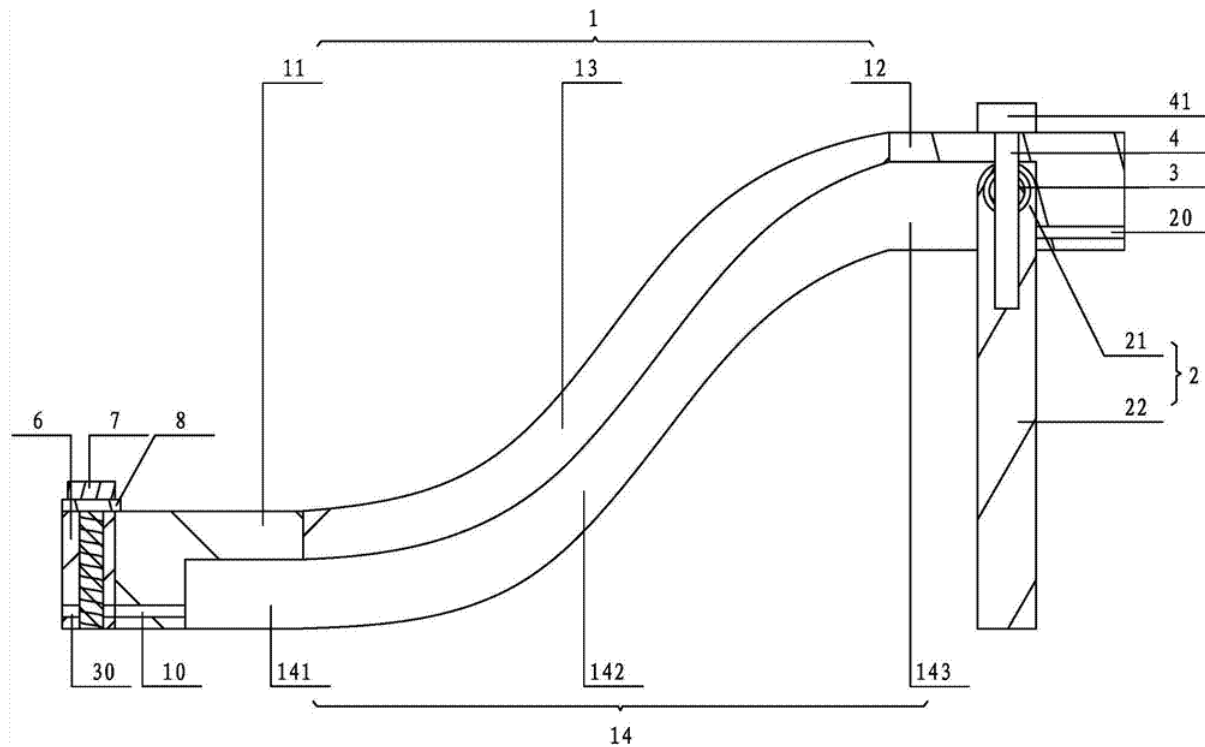
Family 220/432 - FAMPAT - ©Questel

Title

(CN207653689U)

Novel at bottom of folding high -heeled shoes of heel

Images



Publication data including kind & date

[CN207653689](#)

U 2018-07-27 CN207653689U



Abstract

(CN207653689)

The utility model provides a novel at bottom of folding high -heeled shoes of heel, including sole and heel structure, the sole includes sole anterior segment, sole back end and sole middle section, it improves the part and lies in: the sole has and to supply the recess of heel structure screw in, after adopting above -mentioned technical scheme, take the bolt, divide the screw in recess with heels of shoes in, promote the flat board and pass third passageway, recess second portion and second channel, fixed sole in proper order to forming the enclosure space with the recess, guaranteeing that heels of shoes can not divide, the sole becomes at the bottom of the flat shoe, pull out the flat board, heels of shoes divides and to lean on on the wall of back around dead lever counter -clockwiseturning, final supporting because of the action of gravity, adjusts and the align central line of first through -hole, second through -hole and first passageway along the vertical direction, inserts the bolt and the chucking, and the sole becomes high -heel sole, compared with the prior art, transform between realizing at the bottom of high -heel sole and the flat shoe through folding heel, convenient operation, low in manufacturing cost, practicality are strong.

Inventors

SHI WENSHI

Latest standardized assignees - inventors removed

FUJIAN ZHIMING SHOE INDUSTRY

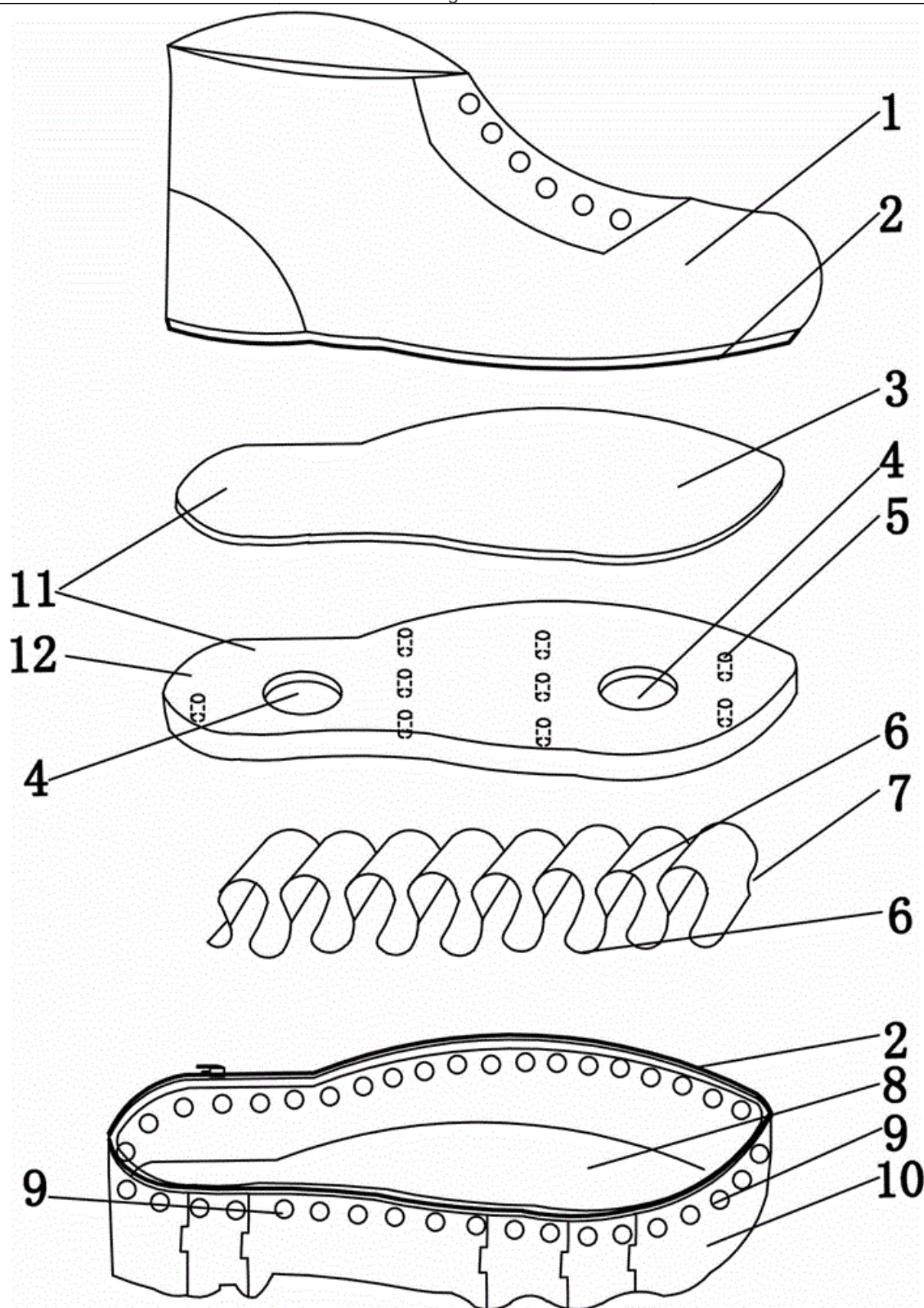
Family 221/432 - FAMPAT - ©Questel

Title

(CN206150577U)

Cool sports shoes dispels heat

Images



Publication data including kind & date

[CN206150577](#)

U 2017-05-10 CN206150577U



Abstract

(CN206150577)

The utility model discloses a cool sports shoes dispels heat effectively solves the sole foot good cool sports shoes dispels heat of cooling effect of perspiring, dispel the heat. Including vamp, sole, heel, its characterized in that: including detachable elasticity shoe garrison backstay, the sole is including the detachable bamboo fibre shoe -pad on upper strata, the sole body of lower floor, bamboo fibre shoe -pad superposes together from top to bottom with the sole body, the sole

body is provided with the recess that is used for placing the drier package, and it has vertical little through -hole to distribute on the sole body, the lower part of sole is equipped with the heel, is equipped with the cavity in the heel, be provided with detachable elasticity shoe garrison backstay in the cavity, the heel lateral surface distributes there is the heat dissipation with little ventilative through -hole. The edge all around of vamp, heel is equipped with the relative zip fastener body, and it is as an organic whole that vamp and heel pass through the zip fastener body coupling. Actively the effect is: the gas permeability is good, and cooling effect is good in the heat dissipation, effectively avoids the sweaty feet to take place, and is comfortable and easy to wear moreover, change, dismounting sole, shoe garrison backstay, heel convenient and fast.

Inventors

SHEN YAHENG

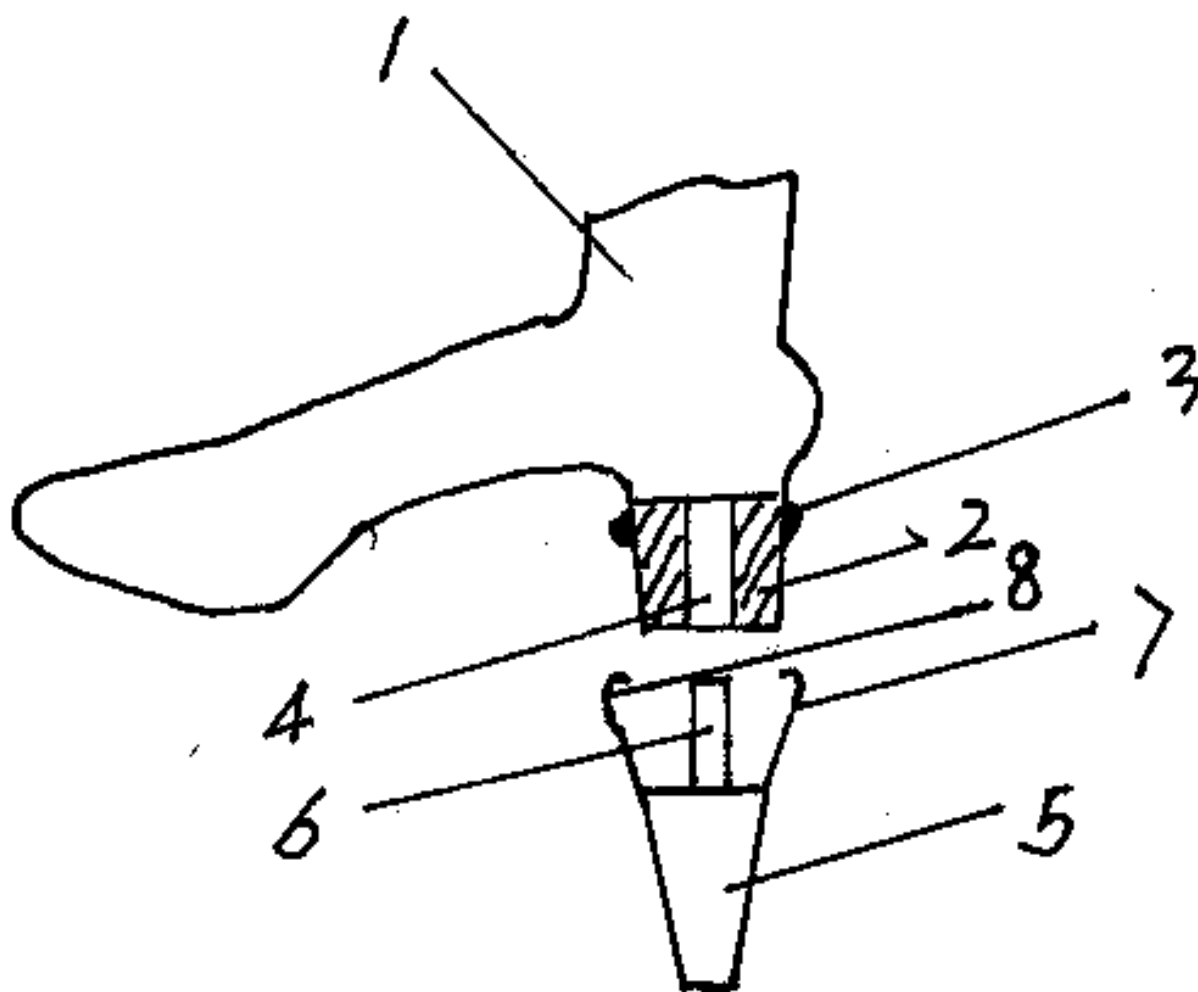
Family 222/432 - FAMPAT - ©Questel

Title

(CN103767244)

High-low heel capable of being replaced at will

Images



Publication data including kind & date

[CN103767244](#)

A

2014-05-07

CN103767244



Abstract

(CN103767244)

Provided is a high-low heel capable of being replaced at will. An inner connecting hole is formed in the center of a fixed heel of each shoe, and a connecting flange is arranged on the upper portion of the outer edge of the fixed heel. An inner connecting pillar is arranged at the center of the upper portion of a movable heel, and an elastic connecting conical barrel with inner recessed parts is arranged on the outer edge of the movable heel. According to the high-low heel capable of being replaced at will, the movable heel can be taken down in the driving process and can be connected to the fixed heel when people get off a car, time and labor are saved, and convenience and rapidness are achieved.

Inventors

WEN YONGLIN

Latest standardized assignees - inventors removed

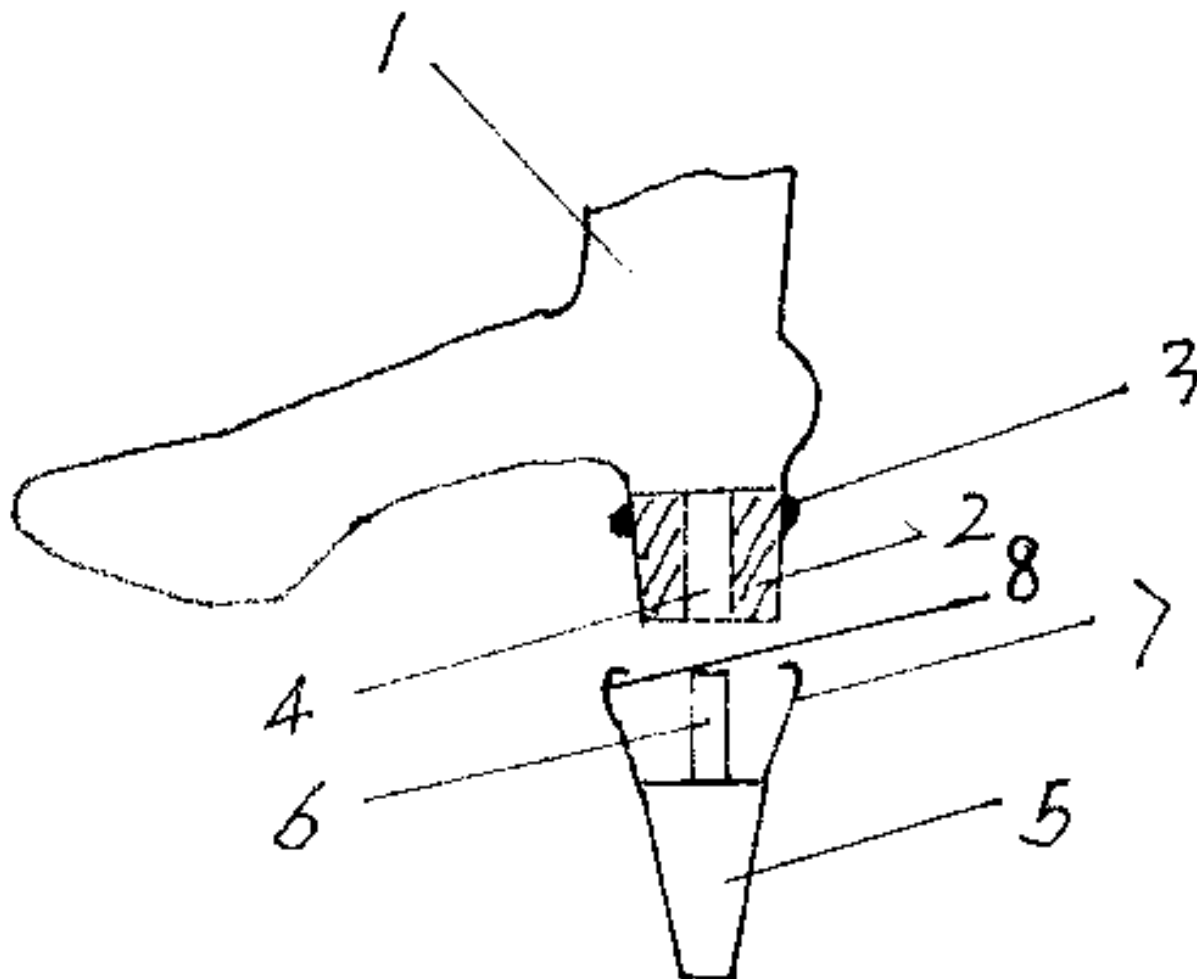
SHANDONG GOLDKING ELECTRICAL APPLIANCES

Family 223/432 - FAMPAT - ©Questel

Title

(CN202874003U)

Heel capable of being connected and detached

Images**Publication data including kind & date**[CN202874003](#)

U

2013-04-17

CN202874003U

**Abstract**

(CN202874003)

The utility model provides a heel capable of being connected and detached. An inner connecting hole is formed in a fixed heel center of a shoe. A connecting flange is arranged on the upper portion of a periphery of the fixed heel. An inner connecting column is arranged in the center of the upper portion of a flexible heel. The periphery of the flexible heel is an elastic connecting cone-shaped column with an indent. The heel capable of being connected and detached can be taken off when a user drives a vehicle and put on when the user gets off the vehicle. The heel capable of being connected and detached is time-saving, labor-saving, convenient and swift.

Inventors

WEN YONGLIN

Latest standardized assignees - inventors removed

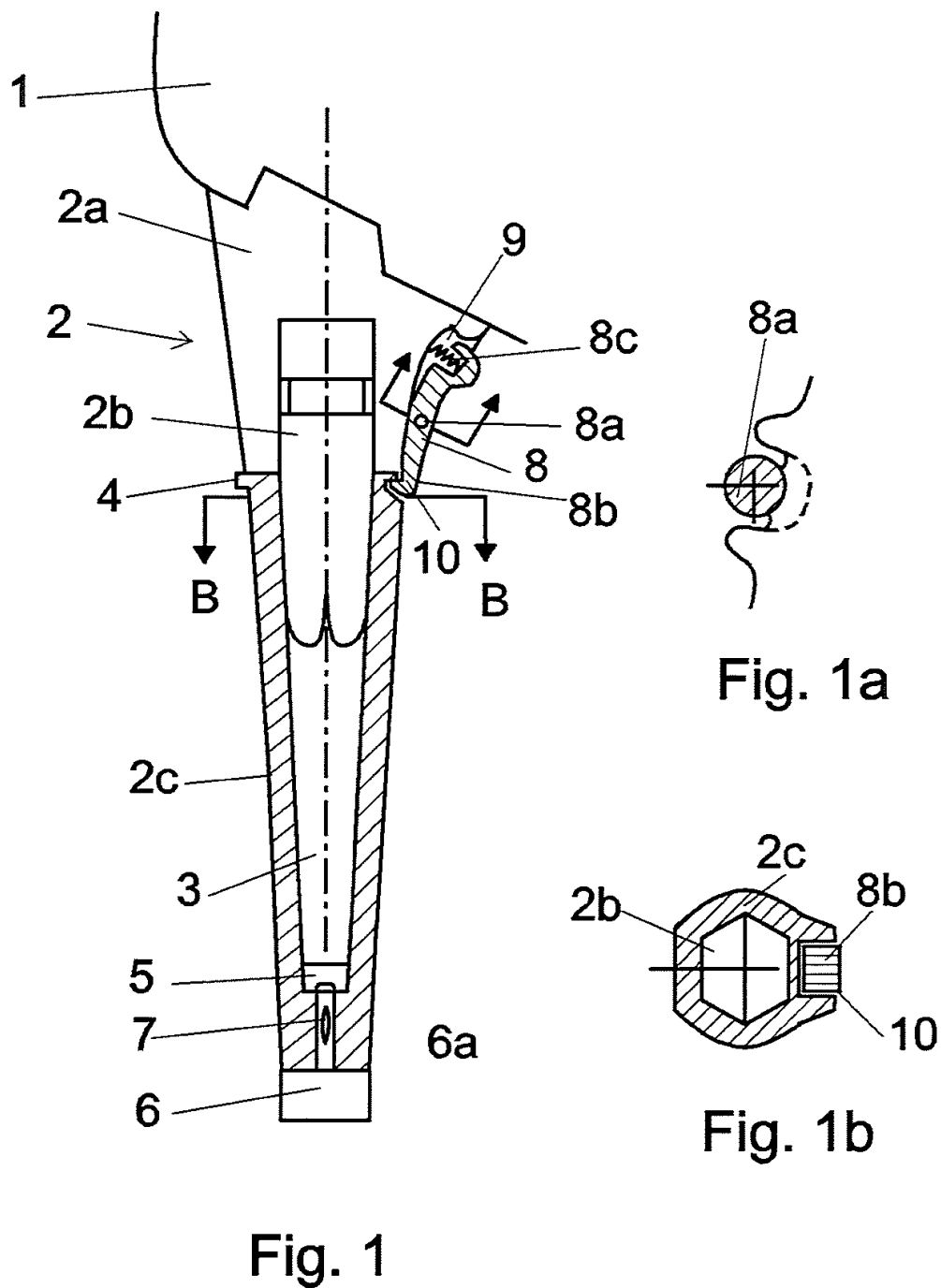
SHANDONG GOLDKING ELECTRICAL APPLIANCES

Family 224/432 - FAMPAT - ©Questel

Title

(WO201423784)

Exchangeable heel for a shoe

Images**Publication data including kind & date**[WO2014/023784](#)

A1 2014-02-13

WO201423784

[DE102012107374](#)

A1 2014-02-13

DE102012107374

**Abstract**

(WO2014/023784)

The invention relates to an exchangeable heel for a shoe, with an exchangeable heel part mounted on the body of the shoe or on a heel part connected rigidly to the body of the shoe. Provision is made that the exchangeable heel part (2c) is mounted on the body of the shoe, or on at least one heel part (2a, 2b) connected rigidly to the body of the shoe, by means of a latching connection (8, 8b; 10,11, 13,11).

Inventors

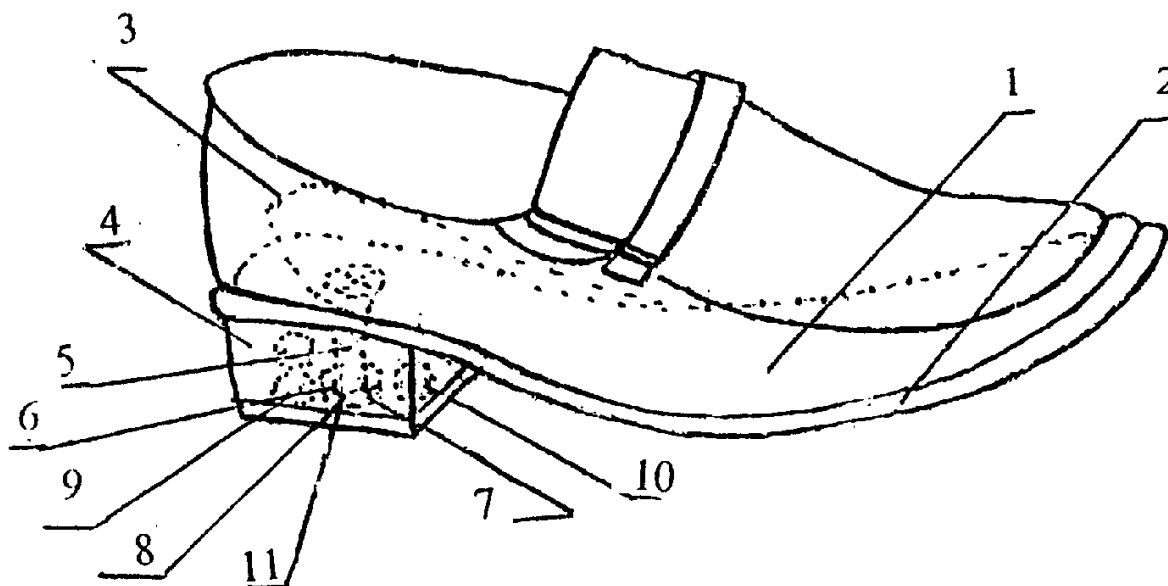
LEIBER KATRIN

Family 225/432 - FAMPAT - ©Questel

Title

(CN1778219)

Dismounted and replaceable heels

Images**Publication data including kind & date**[CN1778219](#)

A

2006-05-31

CN1778219

**Abstract**

(CN1778219)

A detachable and exchangeable heel of shoe is disclosed. It can be fixed to sole of shoe by use of screw bolts and nuts in a conic body inlaying mode.

Inventors

CHU BENHUI

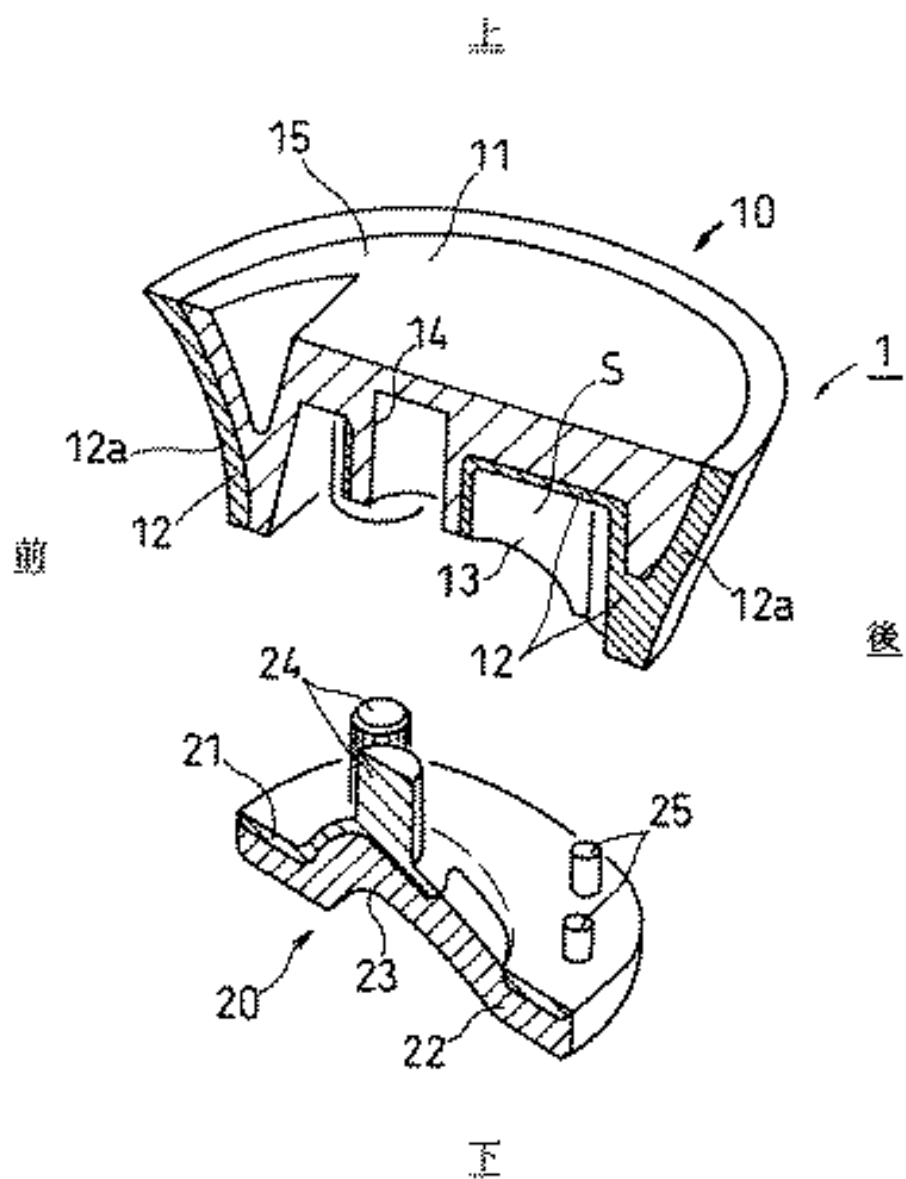
Family 226/432 - FAMPAT - ©Questel

Title

(JP2004337643)

Heel of woman's shoes

Images

**Publication data including kind & date**[JP3718676](#)

B2 2005-09-09

JP3718676

[JP2004337643](#)

A 2004-12-02

JP2004337643

**Abstract**

(JP2004337643)

PROBLEM TO BE SOLVED: To provide heels of woman's shoes reducing shock in landing without impairing stability.

SOLUTION: The front part of a hard first heel body 11 is provided from the upper end face to the lower end of a heel body 10, and the rear part of the first heel body 11 is spaced from the upper end face of a lift 20. A second heel body 12 softer than the first heel body 11 is provided in a space between the first heel body 11 and the upper end face of the lift 20 at the rear part, and the second heel body 12 is joined to the lower face of the rear part of the first heel body 11.

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Inventors

Takahiro Shibasaki

HASHIMOTO SUSUMU

Latest standardized assignees - inventors removed

ASICS

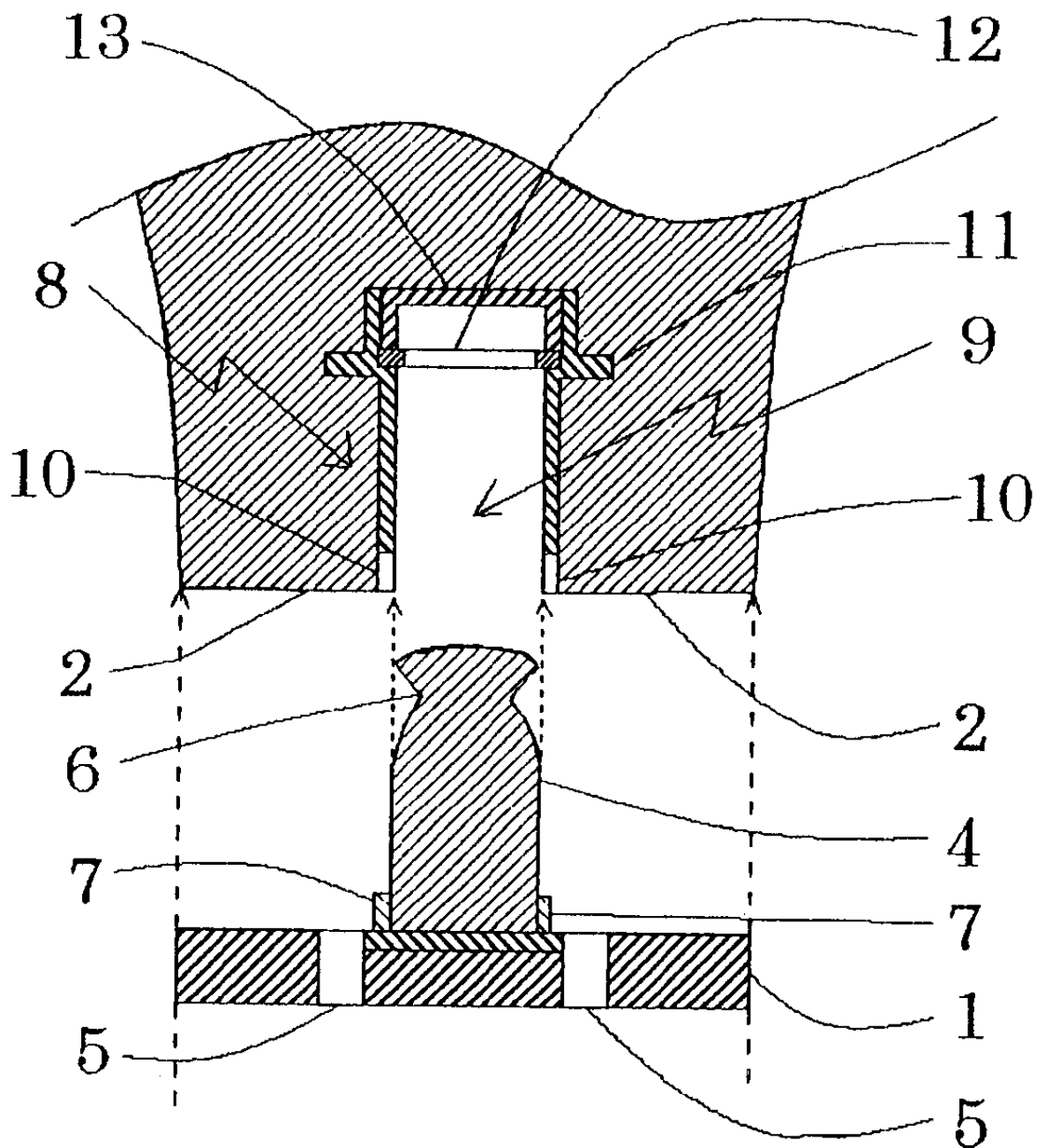
Family 227/432 - FAMPAT - ©Questel

Title

(US6510625)

Structure for attaching and detaching attachment to/from shoe sole

Images



Publication data including kind & date

US6655049	B2	2003-12-02	US6655049
US20030074807	A1	2003-04-24	US20030074807
US6510625	B2	2003-01-28	US6510625
US20020020079	A1	2002-02-21	US20020020079
JP2001340110	A	2001-12-11	JP2001340110



Abstract

(US20020020079)

A connector includes an insert member for seating within a socket embedded in a shoe sole wherein it is removably fixed with an elastic member, the connector permitting the removal of the attachment with a wrench engaging a tool fitting portion formed on the shoe sole side. A first camming surface is formed on the socket and a second camming surface is formed on the insert member. The insert member is removed from the socket using a wrench to turn the second camming surface relative to the first camming surface.

Inventors

SATO MITSUO

MISHIMA YOSHIKI

Latest standardized assignees - inventors removed

YUGEN KAISHA SATO SEISAKUSHO

DAIYU SHOJI

Family 228/432 - FAMPAT - ©Questel

Title

(KR19960010491U)

Shoe

Publication data including kind & date

KR960010491

Y1

1996-12-17

KR19960010491U



Abstract

(KR960010491)

No contents.

Inventors

CHOI, JEONG SIK

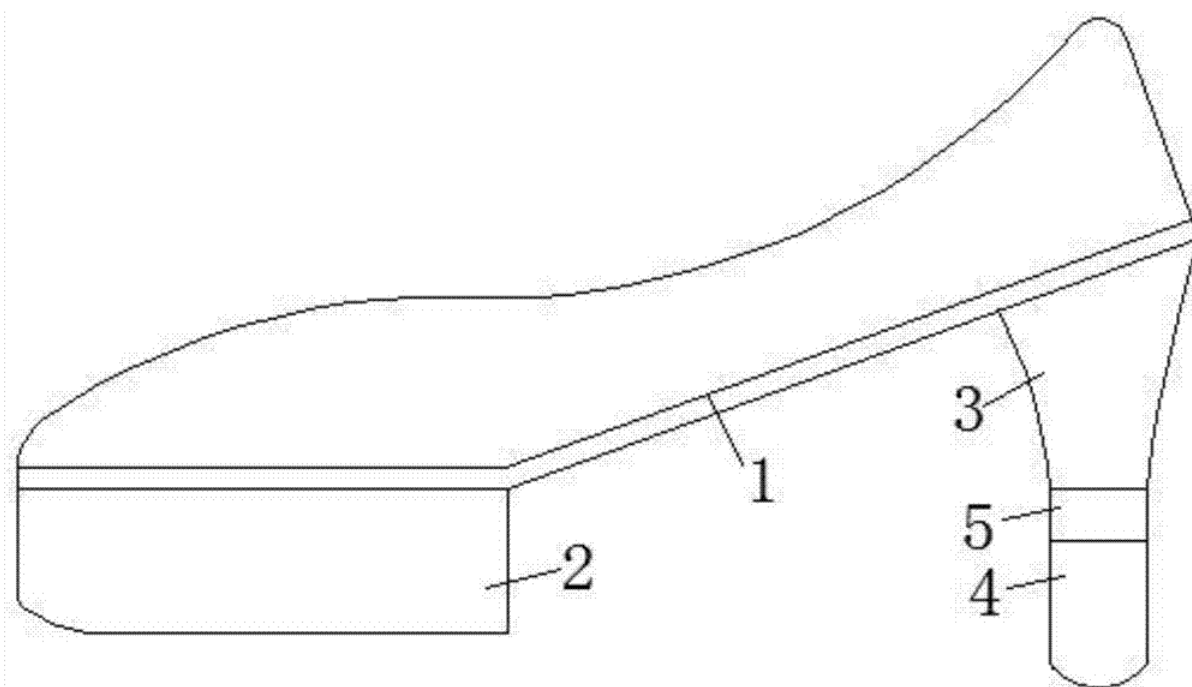
Family 229/432 - FAMPAT - ©Questel

Title

(CN208228459U)

Adjustable heel high -heeled shoes

Images



Publication data including kind & date

CN208228459

U

2018-12-14

CN208228459U



Abstract

(CN208228459)

The utility model relates to an adjustable heel high-heeled shoes, including the shoes body, heel, shoe heel, shoe heel and heel tandem's fixed mounting is in shoes body bottom, be equipped with rectangular the hold chamber of opening towards the heel direction among the shoe heel, the bottom of heel is equipped with detachable heightening insole and the sole is followed, heightening insole has aplurality ofly, it has the internal screw thread screwed pipe to be equipped with along vertical direction in the heel, during following, the sole is equipped with the vertical ascending and bolt that can close with screwed pipe looks spiral shell, heightening insole's center has the through-hole that the diameter is greater than the

screwed pipe internal diameter, heightening insole can overlap in heel and sole follow between outside the bolt, heightening insole places when not using in the chamber that holds that is arranged in shoe heel inside. The beneficial effects of the utility model are that: adjust heeled height in heel and sole with heightening insole number within a definite time through the change bit, the heightening insole who does not use places in the chamber that holds that is arranged in shoe heel inside, makes heightening insole convenient to carry.

Inventors

DU FULI

Latest standardized assignees - inventors removed

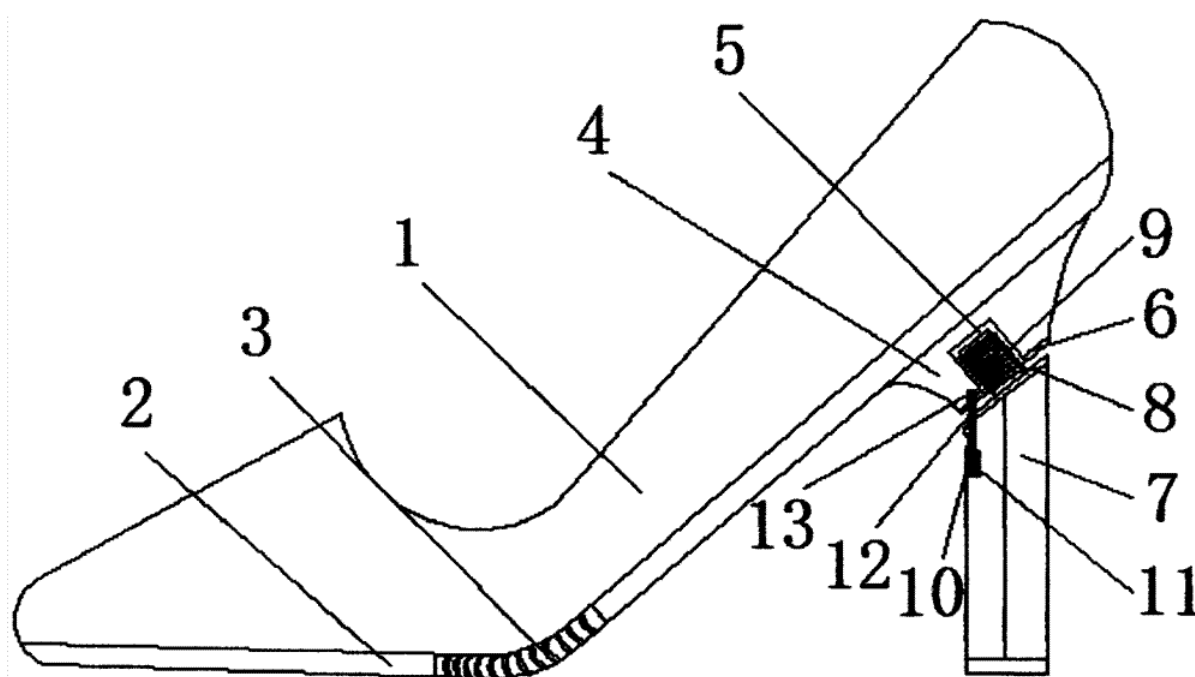
SHAOXING VOCATIONAL & TECHNICAL COLLEGE

Family 230/432 - FAMPAT - ©Questel

Title

(CN107536172)

Detachable device of high-heeled shoe

Images**Publication data including kind & date**[CN107536172](#)

A

2018-01-05

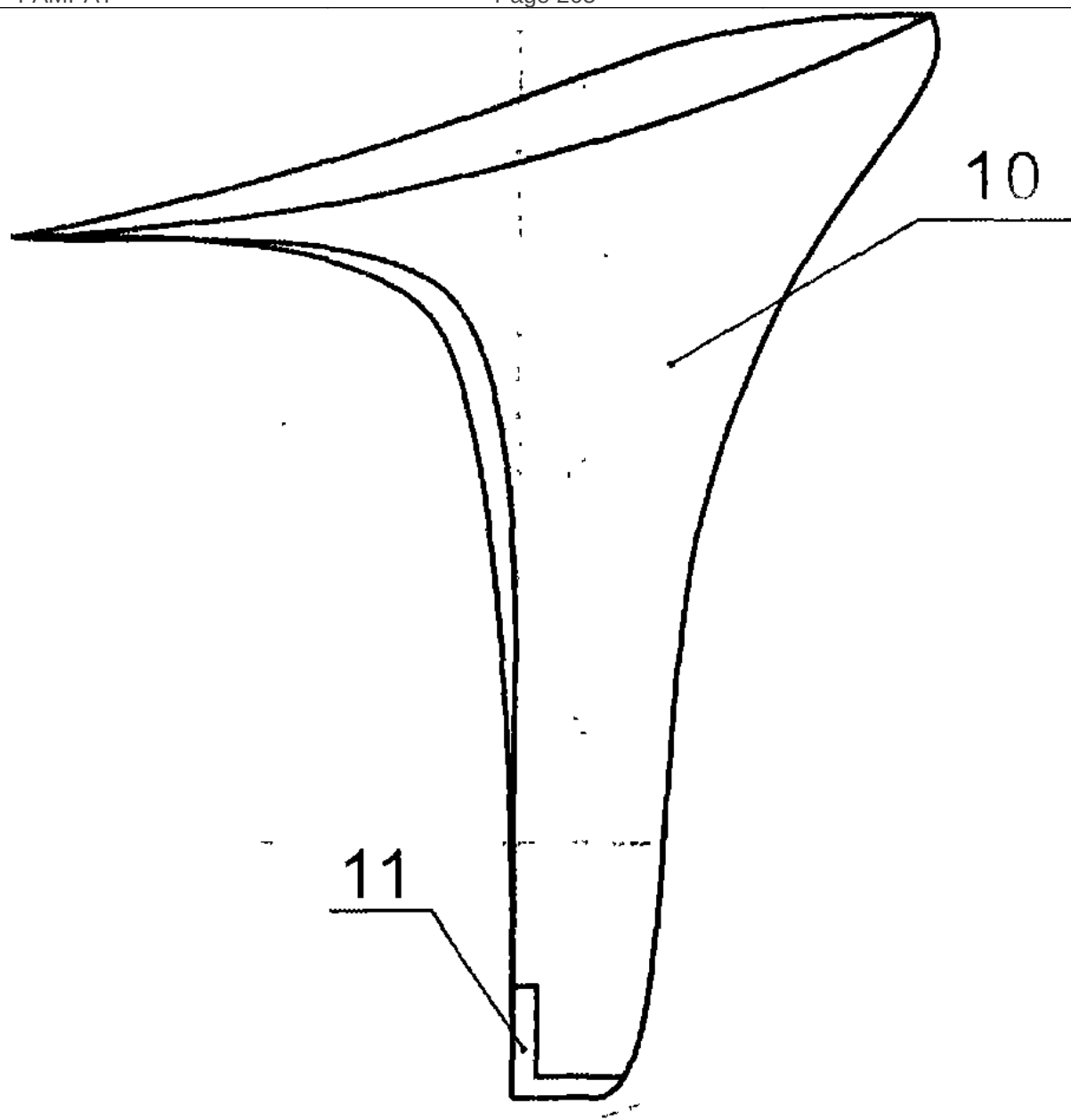
CN107536172

**Abstract**

(CN107536172)

The invention discloses a detachable device of a high-heeled shoe. The device comprises a shoe body, and a sole fixedly connected with the bottom end of the shoe body. The middle part of the sole is fixedly provided with a soft rubber body. One end of the bottom end of the sole, far away from the soft rubber body, is fixedly provided with a heel. The middle part of an inner cavity of the heel is provided with a thread groove. The bottom end of the heel is fixedly provided with an antiskid block which is under the thread groove. The bottom end of the antiskid block is movably provided with a shoe rod. The top end of the shoe rod is fixedly provided with a nut. The middle part of the upper surface of the nut is fixedly provided with a screw rod. One end of the screw rod passes through and extends to the top end of the antiskid block and is connected with the thread groove by threads. One side of a shoe rod inner cavity is provided with a telescopic groove which is far away from the sidesurface of the screw rod. The detachable device of a high-heeled shoe makes a sleeve couple with a loop bar through moving a moving block downward, so the sleeve slides out from a fixing groove, and then the shoe rod is rotated until the screw rod rotates out from the thread groove and the shoe rod falls off. The detachable device improves practicability of a high-heeled shoe, and improves convenience for a woman to drive a vehicle.

Inventors

**Publication data including kind & date**[CN202890715](#)

U

2013-04-24

CN202890715U

**Abstract**

(CN202890715)

The utility model relates to a shoe heel with a changeable heel piece and provides a structure which is used for but not confined to a combination sole shoe heel. The shoe heel with the changeable heel piece is composed of a shoe heel main body and a heel piece, wherein a round functional hole is arranged in the bottom of the shoe heel main body, and a cylindrical protrusion is arranged on the upper surface of the heel piece. The shoe heel with the changeable heel piece is characterized in that an upward extending part is arranged at one end of the heel piece, a hemispheric fixed protrusion is arranged on one side of the extending part, and the round functional hole is arranged in the inner side of the shoe heel main body. The heel piece can be tightly connected with the shoe heel main body through by being fixed through two points, so that connecting intensity is improved on one hand, and the upward extending part of the heel piece is capable of preventing breakage or loosening of the heel piece caused by collision on the other hand.

Inventors

LI ZAIRAN

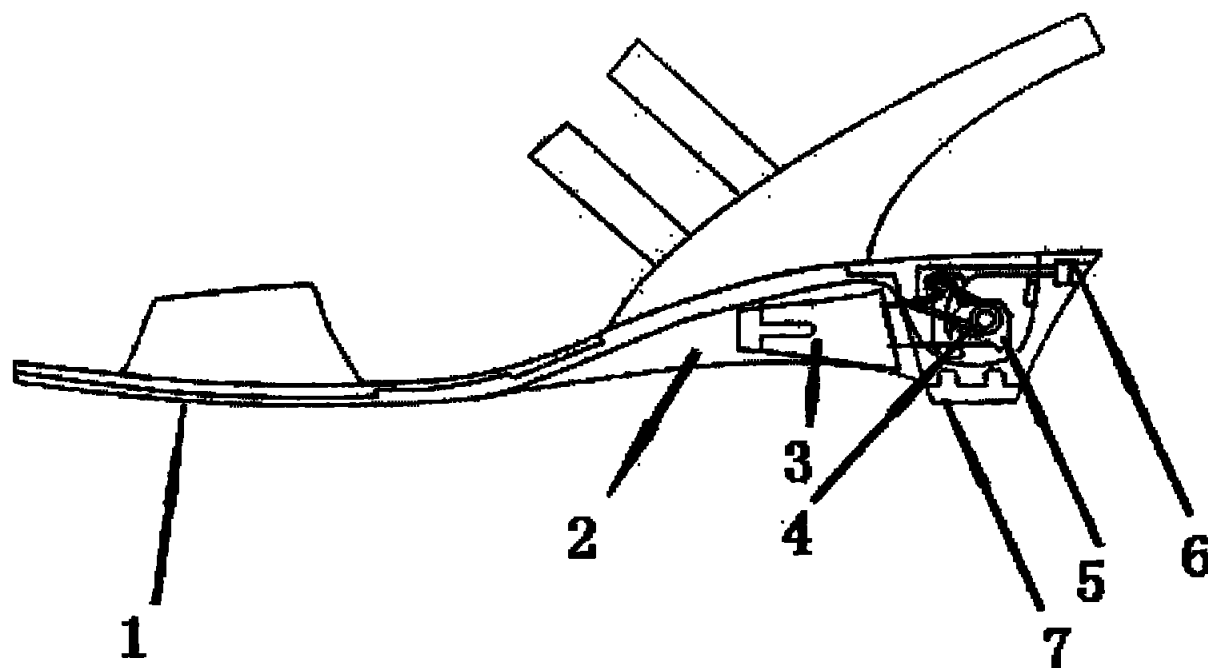
Latest standardized assignees - inventors removed

WENZHOU VOCATIONAL & TECHNICAL COLLEGE

Title

(CN201986817U)

Folding shoe with adjustable heel height

Images**Publication data including kind & date**[CN201986817](#)

U

2011-09-28

CN201986817U

**Abstract**

(CN201986817)

A folding shoe with adjustable heel height relates to an improvement structure of a shoe, in particular to an improvement structure of a heel. The folding shoe with adjustable heel height comprise a sole and a wedge heel mounted under the sole, and further comprises an elastic steel sheet, a detachable baffle plate, a retractable heel, a distortional spring, a metal supporting block and a retractable switch; the elastic steel sheet is arranged under the front part of the sole; the inside of the wedge heel is hollow and the communicated openings are formed at the bottom and on the front side of the wedge heel; and the detachable baffle plate is mounted in front of the wedge heel; the retractable heel is arranged under the wedge heel, the metal supporting block is fixed at the upper end of the retractable heel, the metal supporting block and the distortional spring are mounted inside the wedge heel through a shaft which is horizontally arranged, the retractable switch is arranged above the metal supporting block, the rear end of the retractable switch is arranged in a through hole formed on the rear side of the wedge heel, one end of the distortional spring is fixed with the retractable heel, and the other end of the distortional spring is overlapped on the hook of the retractable switch. The utility model solves the problems of unbeautiful appearance, inconvenience in folding and uncomfortableness in wearing of the existing folding shoe with changeable heel height.

Inventors

XU XIANG

LIN JIANJIANG

Latest standardized assignees - inventors removed

FOSHAN SATURDAY SHOES

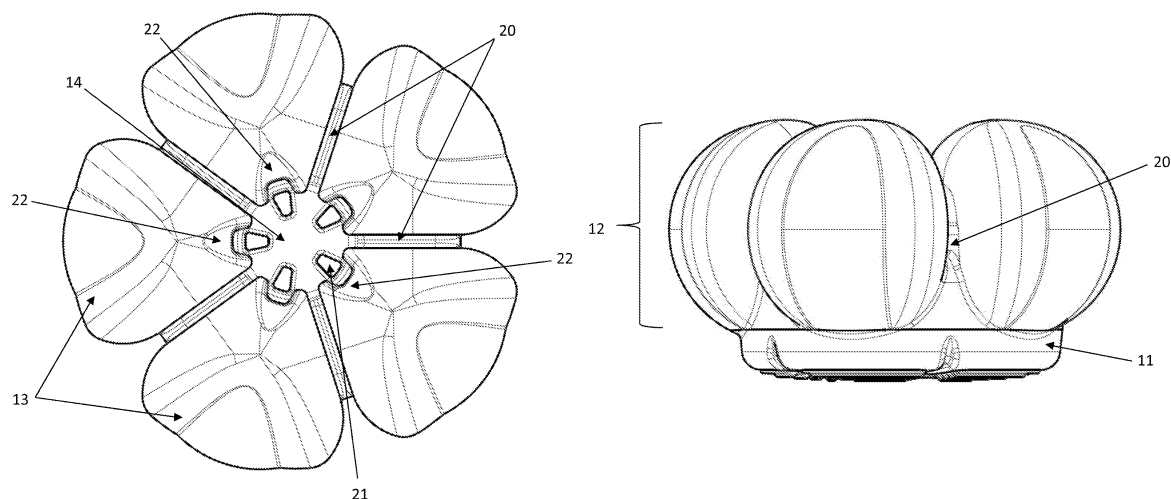
Family 234/432 - FAMPAT - ©Questel

Title

(EP2320763)

A shoe heel support device

Images



Publication data including kind & date

US9015964	B2	2015-04-28	US9015964
NZ591218	A	2013-08-30	NZ-591218
AU2009276306	B2	2013-01-24	AU2009276306
EP2320763	A4	2012-02-01	EP2320763
US20110314704	A1	2011-12-29	US20110314704
EP2320763	A1	2011-05-18	EP2320763
WO2010/012047	A1	2010-02-04	WO201012047
CA2732900	A1	2010-02-04	CA2732900
AU2009276306	A1	2010-02-04	AU2009276306



Abstract

(EP2320763)

A shoe heel support device including a ground contacting base portion and a resilient shoe heel engagement portion attached to the ground contacting base portion, the resilient shoe heel engagement portion including at least three lobe portions each having an inner surface together defining a bore for receiving a shoe heel therein, the dimension of the bore smaller than the cross-sectional dimension of the shoe heel.

Inventors

NAISMITH-BEELEY MARK

Latest standardized assignees - inventors removed

NAISMITH BEELEY ILDE

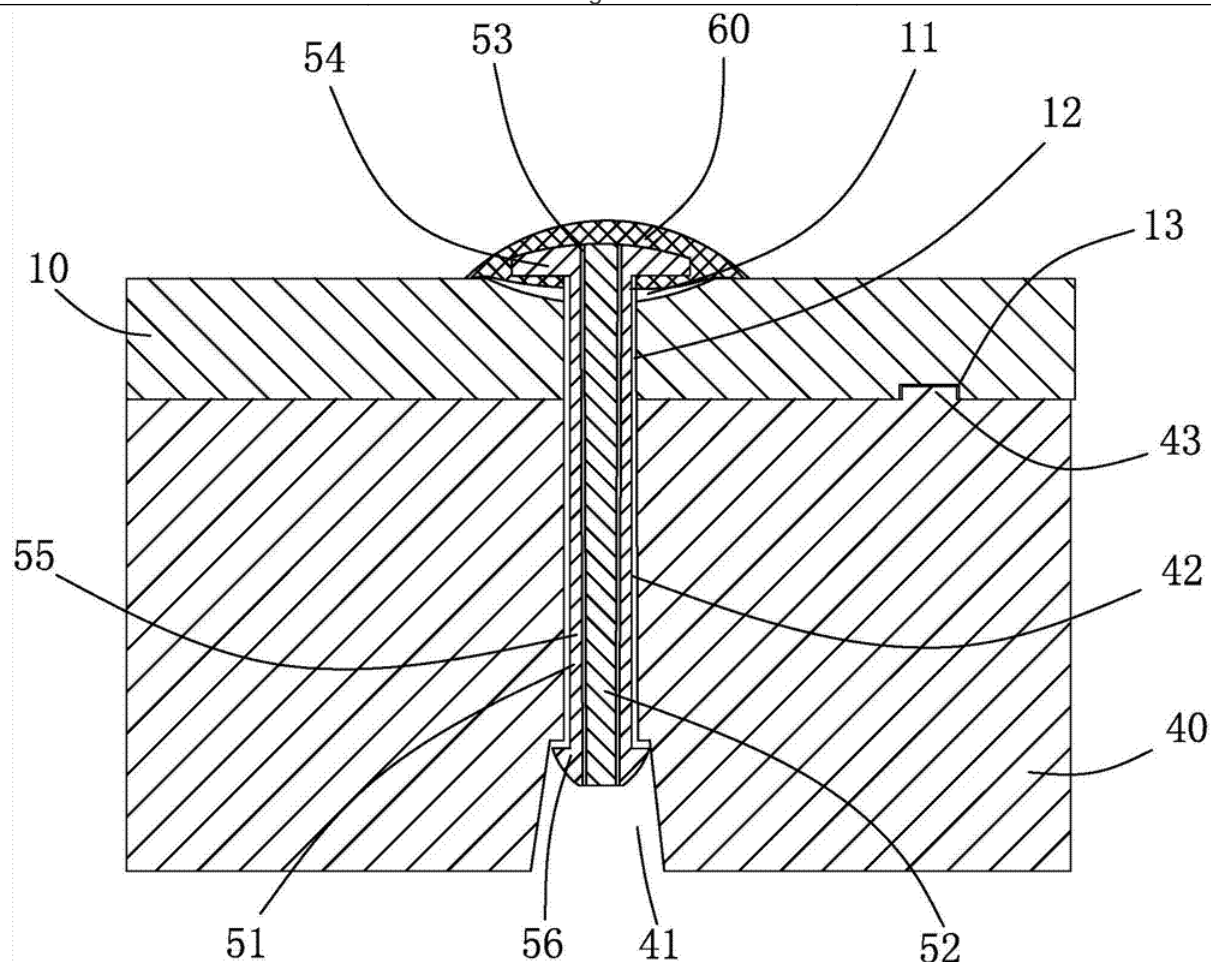
Family 235/432 - FAMPAT - ©Questel

Title

(CN207070921U)

High -heeled shoes with detachable waterproof platform

Images



Publication data including kind & date

CN207070921

U

2018-03-06

CN207070921U



Abstract

(CN207070921)

The utility model provides a high-heeled shoe with a detachable waterproof platform, including sole, vamp, heel, waterproof platform, a plurality of locking parts and a plurality of silica gel pads, and the sole is a palm portion before the back heel reaches, and the heel is installed on the bottom surface of the back heel detachably, and the waterproof platform is installed on the bottom surface of the preceding palm portion through the locking part detachably, the locking part includes the connecting piece and installs the adaptation spacers in the connecting piece that the connecting piece includes the spacing platform, this somatic part and block portion, the spacing platform and a block portion body coupling in both ends of this somatic part. The silica gel pad is installed in the spacing bench, and the protrusion is on the top surface of the sole, the utility model discloses a setting up of a detachable waterproof platform and heel, making the heel and waterproof platform change according to the user state, can prolong the life of the sole, reduce the use cost of shoes, through setting up the locking part, make the dismounting of the waterproof platform simple and convenient, through setting up the silica gel pad, can play the massage effect to the foot, the practicality is strong, has stronger popularization meaning.

Inventors

LI DALIN

Latest standardized assignees - inventors removed

DONGGUAN TERUI HARDWARE PLASTIC PRODUCT

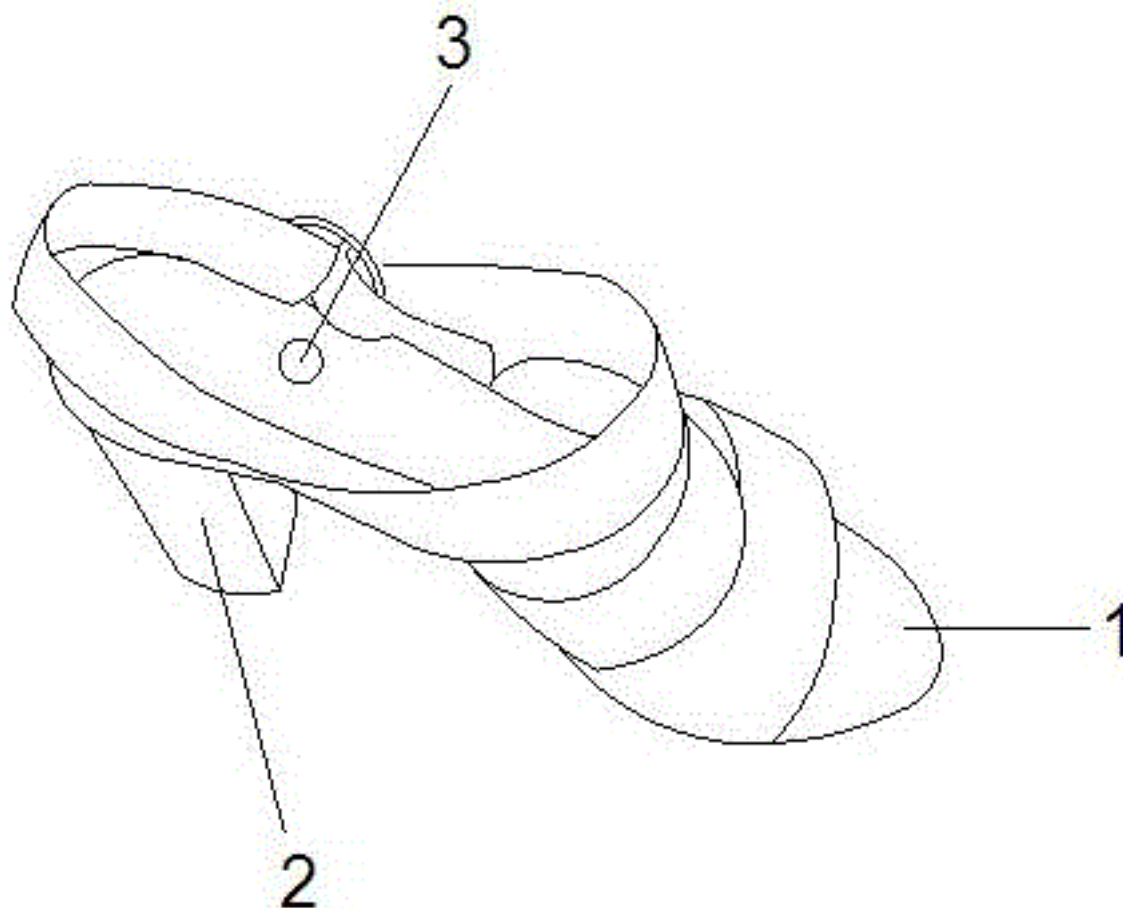
Family 236/432 - FAMPAT - ©Questel

Title

(CN206043602U)

Detachable shoes heel's high -heeled shoes

Images

**Publication data including kind & date**[CN206043602](#)

U

2017-03-29

CN206043602U

**Abstract**

(CN206043602)

The utility model discloses a detachable shoes heel's high -heeled shoes, including high -heeled shoes main part and heel, high -heeled shoes main part and heel detachability's connection, high -heeled shoes main part heel end is provided with the main part heel, is provided with the draw -in groove on the main part heel, is provided with the trip in the draw -in groove, and the trip to be in order running through in the mode setting of main part sole, and trip one end is connected to the trip button, and the upper surface at the main part sole is installed to the trip button, be provided with on the heel with draw -in groove matched with heel lug, the heel lug pushes the draw -in groove, is provided with the recess with trip corresponding position on the heel lug, recess one side is provided with the kelly, the trip is placed in the recess to the card is on the kelly. This detachable shoes heel's high -heeled shoes reasonable in design, have dismantle convenient, connect stabilize, be difficult for droing, advantage that degree comfortable and easy to wear is high, ladies can change the colour and the style of heel according to individual hobby, have reduced people's economic pressures.

Inventors

LI HAOHUA

Latest standardized assignees - inventors removed

ZHUHAI YUTIAN INVESTMENT

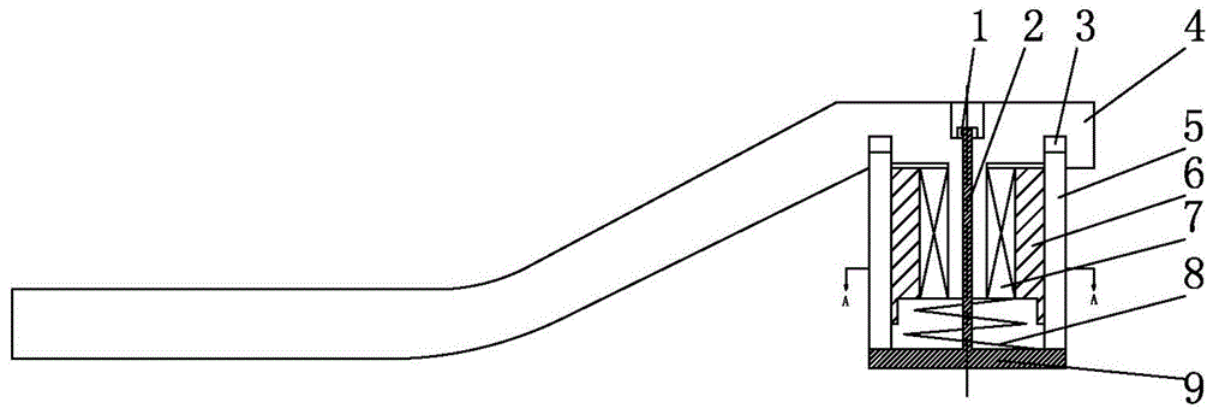
Family 237/432 - FAMPAT - ©Questel

Title

(CN205456479U)

Soles

Images

**Publication data including kind & date**[CN205456479](#)

U 2016-08-17 CN205456479U

**Abstract**

(CN205456479)

The utility model discloses a soles, soles's the protruding quill shaft that is equipped with of heel bottom, install horizontal pivoted bearing on the quill shaft, the outer coaxial gear that is equipped with of rotor of bearing, the gear is equipped with the ring gear outward, the one end of ring gear is pegged graft in the swivelling chute of soles bottom, the other end of ring gear is equipped with the end cover of taking the center pin, what the center pin was rotatable inserts in quill shaft inner through hole, the end that stretches out of center pin is equipped with fastening nut, the quill shaft overcoat has cone spring, the cone spring upper end is fixed with the rotor, the lower extreme is fixed with the end cover. The utility model provides a long -life shock attenuation soles, it is poor with the shock attenuation effect to solve the current soles comfort level of prior art, can not change soles abrasion part, problem that shoes life lacks.

Inventors

ZHANG LIMIN

Latest standardized assignees - inventors removed

START

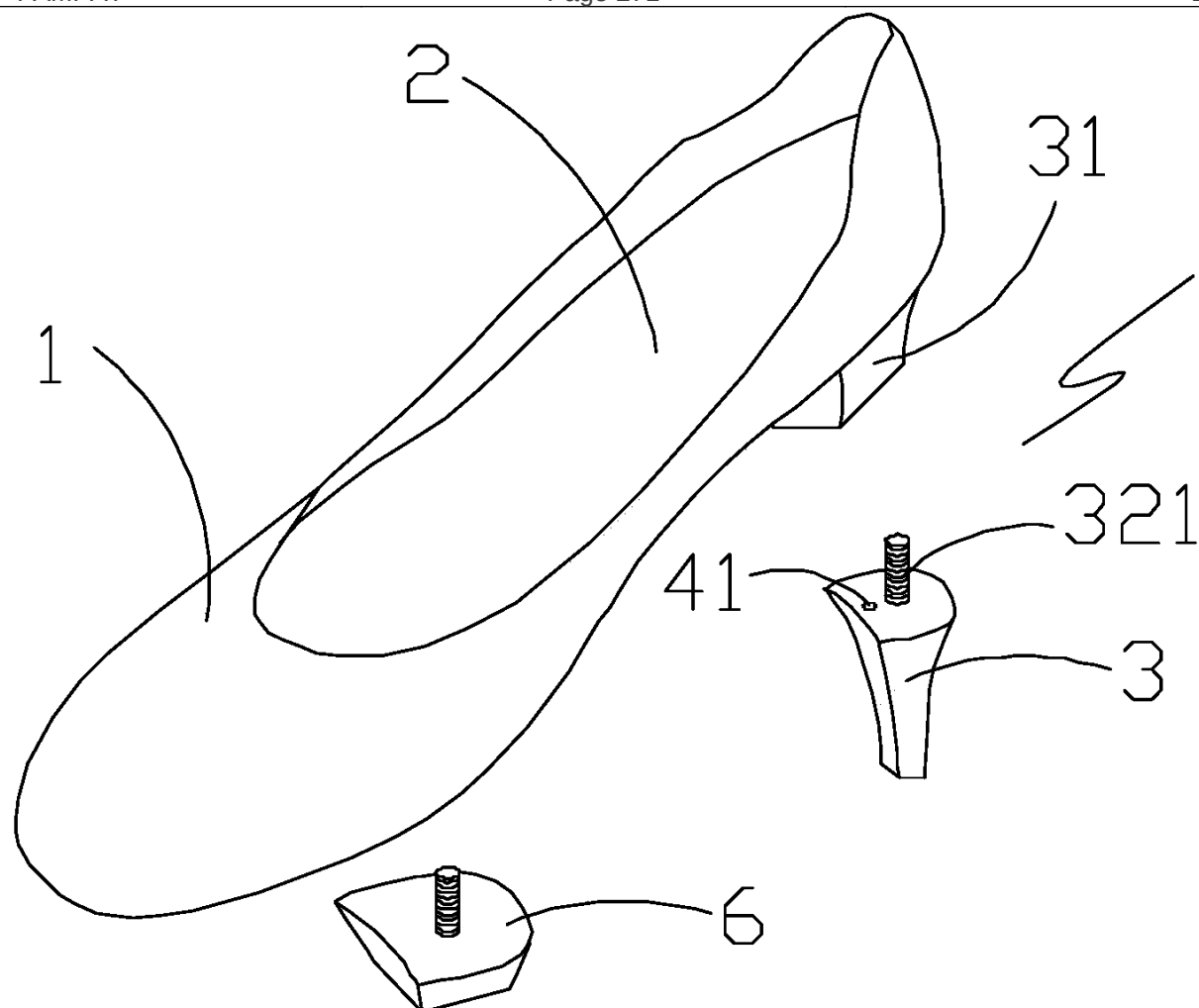
Family 238/432 - FAMPAT - ©Questel

Title

(CN204363099U)

Heel-replaceable shoe

Images

**Publication data including kind & date**[CN204363099](#)

U

2015-06-03

CN204363099U

**Abstract**

(CN204363099)

The utility model discloses a heel-replaceable shoe which comprises a shoe sole, a vamp fixedly connected with the shoe sole and a heel fixed to the bottom face of the shoe sole. The heel comprises a fixed portion and a movable portion, wherein the fixed portion is fixedly connected with the movable portion through a detachable device. Due to the fact that detachable fixed connection is adopted for the position between the fixed portion and the movable portion of the heel, the heel can be replaced timely when the heel is overly worn or broken, and the heel of the appropriate height can be replaced according to occasions. Accordingly, the service life of the shoe can be prolonged, and multiple purposes can be achieved through one shoe.

Inventors

HE GUANCHANG

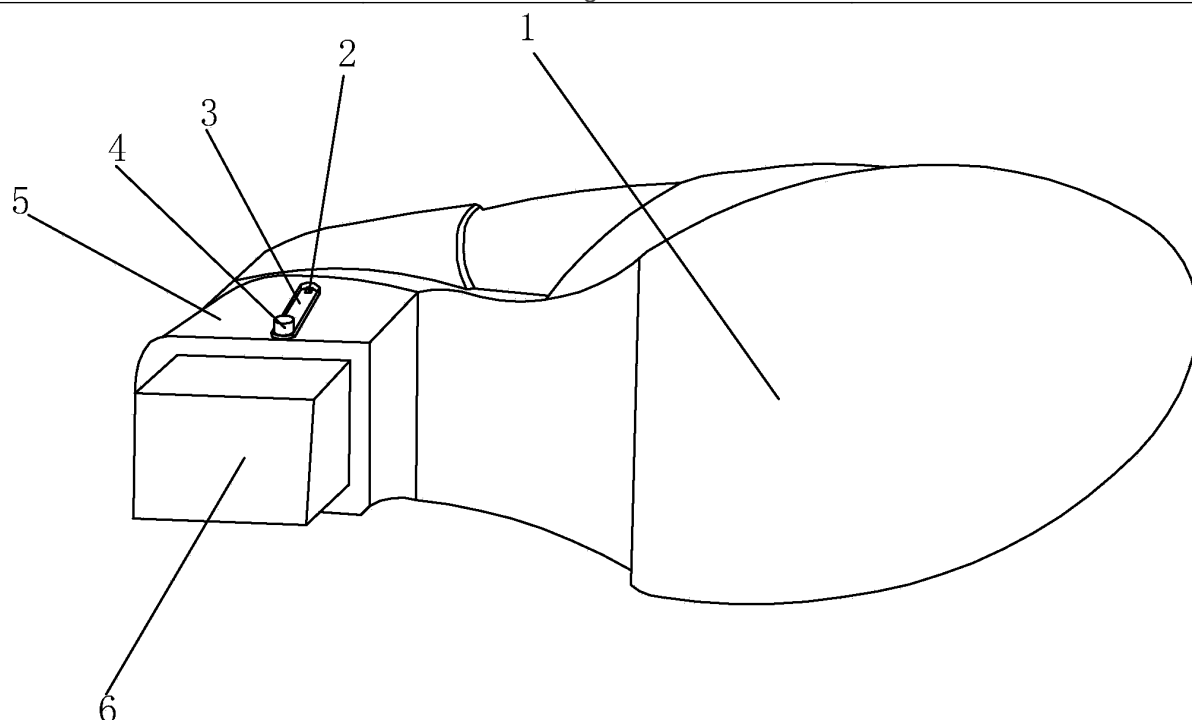
Family 239/432 - FAMPAT - ©Questel

Title

(CN203884850U)

Boots with replaceable heels

Images

**Publication data including kind & date**

CN203884850

U 2014-10-22 CN203884850U

**Abstract**

(CN203884850)

The utility model discloses a pair of boots with replaceable heels. Each boot comprises a shoe sole and a heel fixedly arranged on the shoe sole, wherein the shoe sole is made of hard material, a containing groove with an opening is formed in the end face of the other side, opposite to the side connected with the shoe sole, of the heel, an inner heel made of soft material is arranged in the containing groove, a sliding groove is formed in the surface of the heel and communicated with the containing groove, a sliding button is connected in the sliding groove in a clamped mode, a connecting rod is fixedly arranged between the sliding button and the inner heel, and a locking structure for fixing the inner heel is arranged on the inner heel. According to the pair of boots with the replaceable heels, the hard heels and the soft inner heels can be easily and conveniently replaced according to different circumstances, and the practicability of the boots is improved.

Inventors

CAO ZHONGHAI

Latest standardized assignees - inventors removed

HANGZHOU TONGYUN SHOES

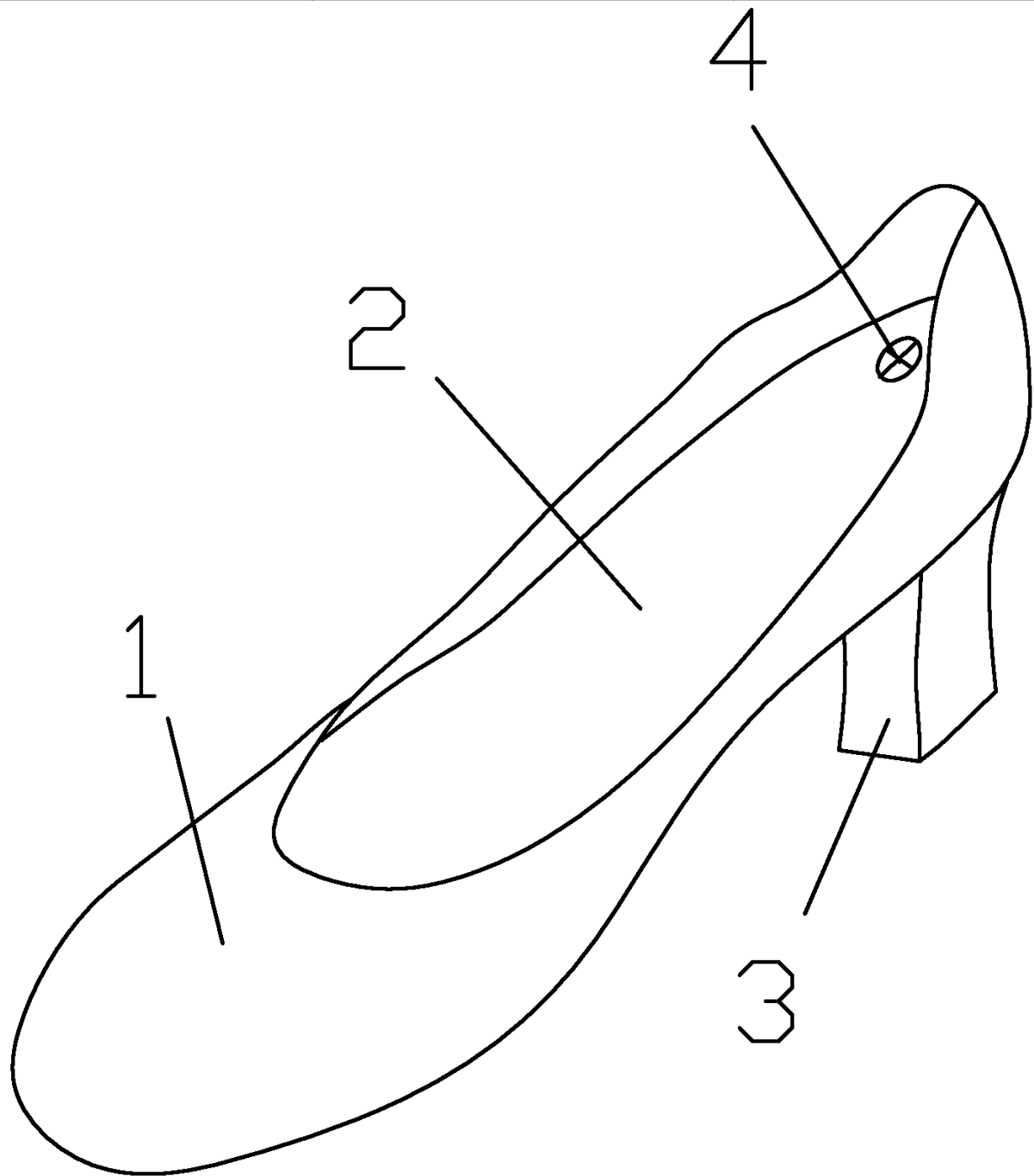
Family 240/432 - FAMPAT - ©Questel

Title

(CN202364916U)

Shoes with changeable heels

Images

**Publication data including kind & date**[CN202364916](#)

U

2012-08-08

CN202364916U

**Abstract**

(CN202364916)

The utility model relates to a pair of shoes with changeable heels. The pair of shoes comprises soles, vamps fixedly connected with the soles and heels fixed on the bottom faces of the soles, and is characterized in that parts, corresponding to heels of feet, on the soles are provided with small sole holes, parts, connected with the soles, on the heels are provided with small heel holes, the small sole holes and the small heel holes are identical in size and matched in position, and screws sequentially penetrate through the small sole holes and the small heel holes so as to connect the soles and the heels. The pair of shoes has the beneficial effects that: a plurality of heels which are similar in structures and slightly different in styles can be made additionally for later use; when one heel is abraded, the heel can be detached to be changed with a new heel; and the pair of shoes is simple in structure, convenient to change and favorable for effectively increasing the wearing time and the service life of the shoes.

Inventors

LIU CHENGXIA

CHEN YUNYUN

Latest standardized assignees - inventors removed

ZHEJIANG SCI-TECH UNIVERSITY

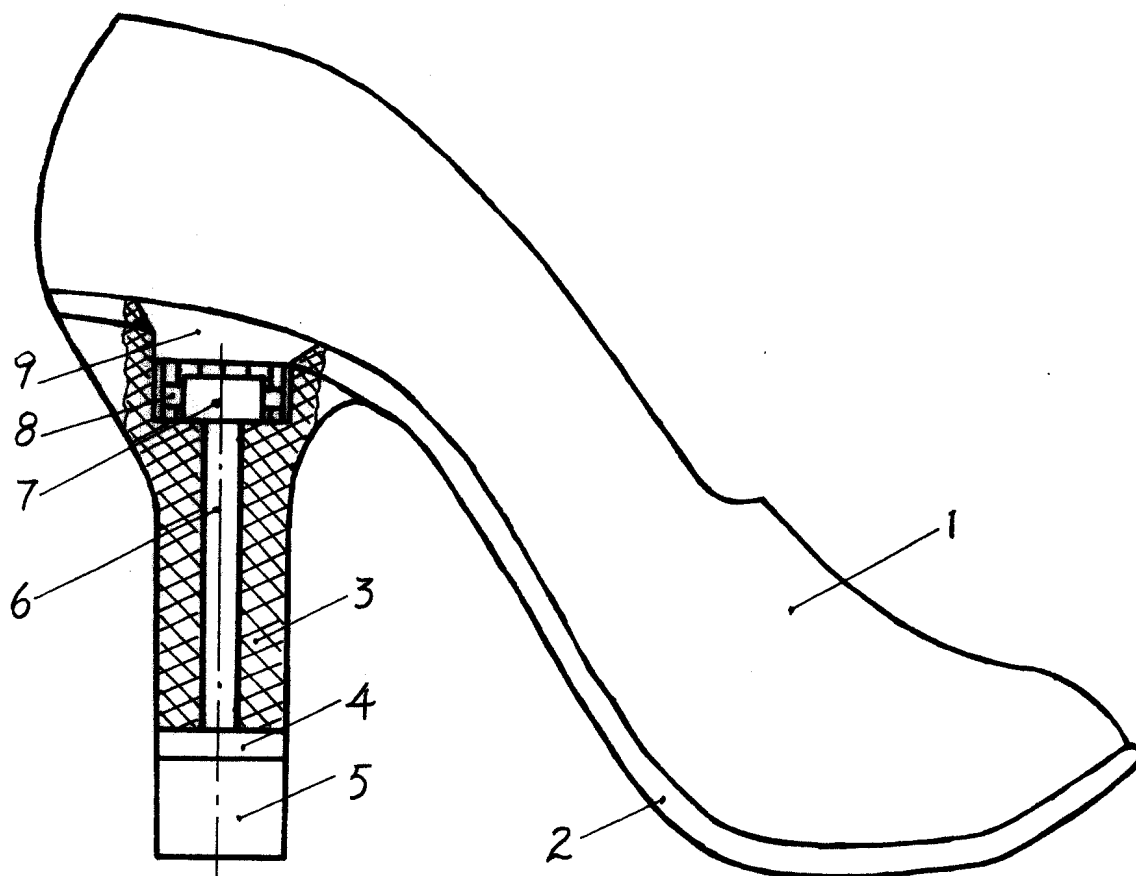
Family 241/432 - FAMPAT - ©Questel

Title

(CN101411552)

Leather shoes with heel non-hypotenuse

Images



Publication data including kind & date

CN101411552

A 2009-04-22 CN101411552



Abstract

(CN101411552)

The invention discloses a leather shoe with a shoe heel without bevel edges. Large, small, high and low shoe heels are moveably assembled with an assembly of large and small rotating wear-resistant devices in a movable fit mode; during walking, the assembly of the large and small rotating wear-resistant devices collides with ground to produce the clock pointer type rotation to ensure that large and small wear-resistant bodies evenly bear the abrasion, thus the surface of the shoe heel always does not produce edge lacking, is always leveled and beautiful, and is always steady and comfortable to wear. The technical proposal converts the phenomenon that the shoe heel is discarded due to the edge lacking on the shoe heel into the discard of the shoe surface, and approximately can double the service life of the leather shoe.

Inventors

GAO SHUNQUAN

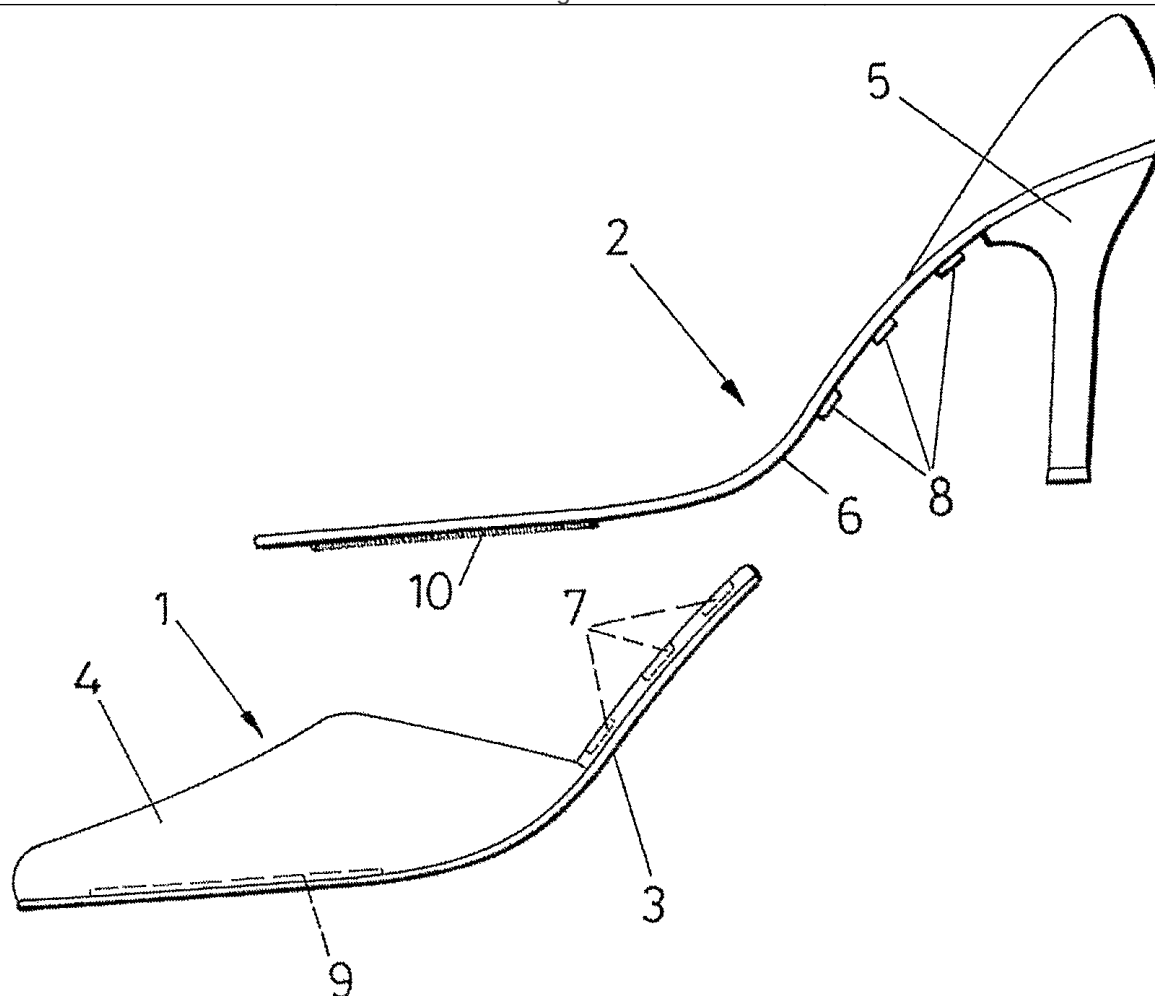
Family 242/432 - FAMPAT - ©Questel

Title

(EP1946665)

Dismantlable shoe

Images



Publication data including kind & date

EA014460	B1	2010-12-30	EA--14460
EP1946665	A4	2010-08-04	EP1946665
EA200900401	A1	2009-08-28	EA200900401
BRPI0520675	A2	2009-05-19	BR200520675
JP2009512471	A	2009-03-26	JP2009512471
CN101340831	A	2009-01-07	CN101340831
US20080271343	A1	2008-11-06	US20080271343
EP1946665	A1	2008-07-23	EP1946665
WO2007/045699	A1	2007-04-26	WO200745699



Abstract

(EP1946665)

The invention relates to a dismantlable shoe comprising two parts (1 and 2) which are independent of each other, but which can be fixed to one another using press-fastening elements (7 and 8) which can be combined with other fixing elements (9 and 10) such as Velcro strips. One of the aforementioned parts (1) comprises the corresponding sole (3) and the upper (4) of the shoe, while the other part (2) forms the heel (5) together with an insole comprising an integrated shank (6). The above-mentioned fastening elements (7 and 8) which are used to fix the two parts (1 and 2) to one another are provided on the sole (3) and on the insole (6), preferably at the waist of such elements.

Inventors

ORDENES HAAG NATALIA

Latest standardized assignees - inventors removed

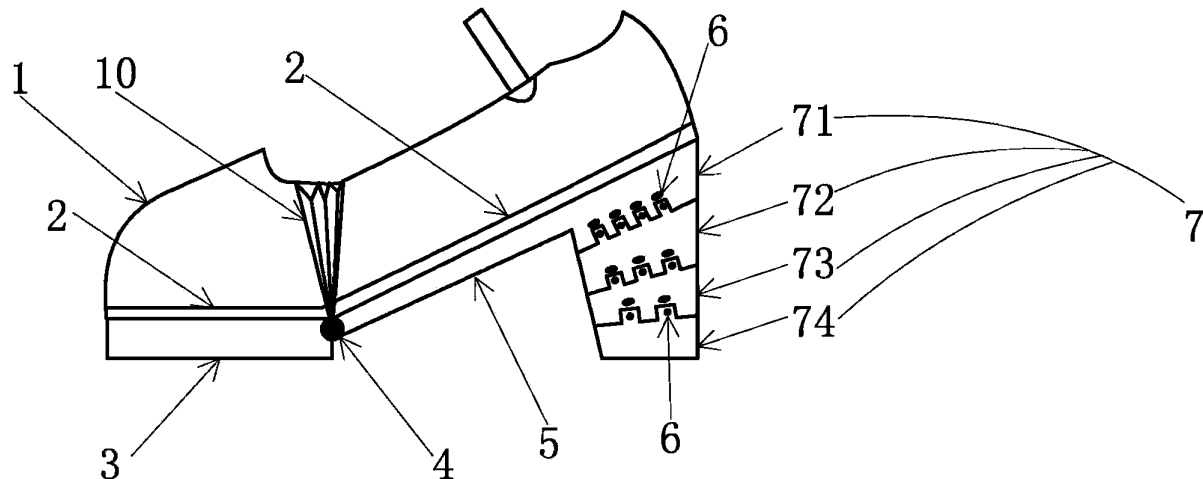
NATALIE ODNIES HAGGER

Family 243/432 - FAMPAT - ©Questel

Title

(CN204273418U)

High-heeled shoe with changeable heel height

Images**Publication data including kind & date**[CN204273418](#)

U

2015-04-22

CN204273418U

**Abstract**

(CN204273418)

The utility model provides a high-heeled shoe with a changeable heel height. The high-heeled shoe is characterized in that the shoe is composed of a front sole (3), a rotating connection device (4), a rear sole (5), a plurality of magnets (6), a multi-stage heel (7), a flexible inner sole (2) and a shoe upper (1); the front sole (3) and the rear sole (5) are connected through the rotating connection device (4); the flexible inner sole (2) is connected with the shoe upper (1) to form a shoe cavity; the outer surface of the flexible inner sole (2) is connected with the upper surface of the front sole (3) and the upper surface of the rear sole (5); the shoe upper (1) is provided with drape (10) from the rotating connection device (4) to the upper surface of the shoe; the rear sole (5) is connected with the first-stage heel (71) of the multi-stage heel (7), all stages of the heels (71, 72, 73 and 74) are connected in a tenon joint mode, and the tenon joint portions are connected in a magnetic mode through the magnets (6). The high-heeled shoe is wide in application range, and the heel height can be changed freely.

Inventors

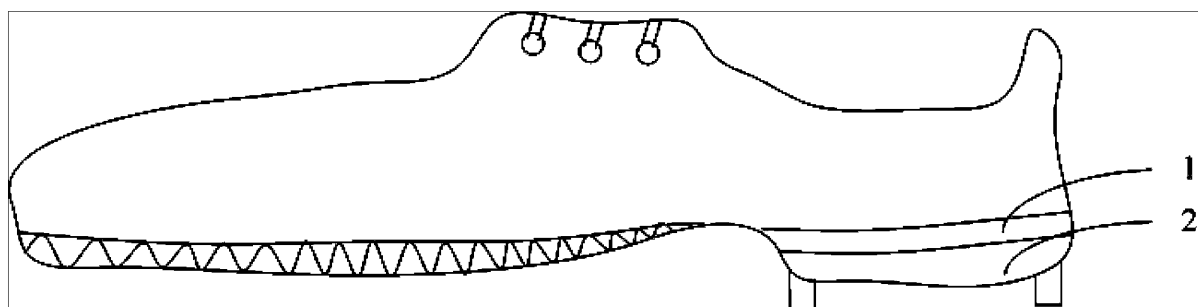
YANG XIN

Family 244/432 - FAMPAT - ©Questel

Title

(CN203814684U)

Convenient mountaineering shoe

Images**Publication data including kind & date**[CN203814684](#)

U

2014-09-10

CN203814684U

**Abstract**

(CN203814684)

The utility model provides a pair of convenient mountaineering shoes, which comprises shoe heels, wherein a double layer

base plate is arranged at the bottom of each shoe heel; an open space is formed between the double layer base plate; the pair of mountaineering shoes further comprises insert plates which are matched with the open spaces; a front high heel is arranged at one end of each insert plate and movably riveted with the insert plate; the insert plate can be inserted into and pulled out of the open space; the front high heel is arranged at one end, close to each shoe tip, of the shoe heel; the front high heel rotates relatively around the riveting joint in the direction from the shoe sole to the shoe tip within 180 degrees. The pair of convenient mountaineering shoes can meet the requirements for hiking and walking in the mountain regions and supplies stable grip performance and resistance for mountaineers in the processes of climbing and descending; and besides, the operation is simple and the service life is longer.

Inventors

CENG YUNHUI

Latest standardized assignees - inventors removed

HENG YANG NORMAL UNIVERSITY

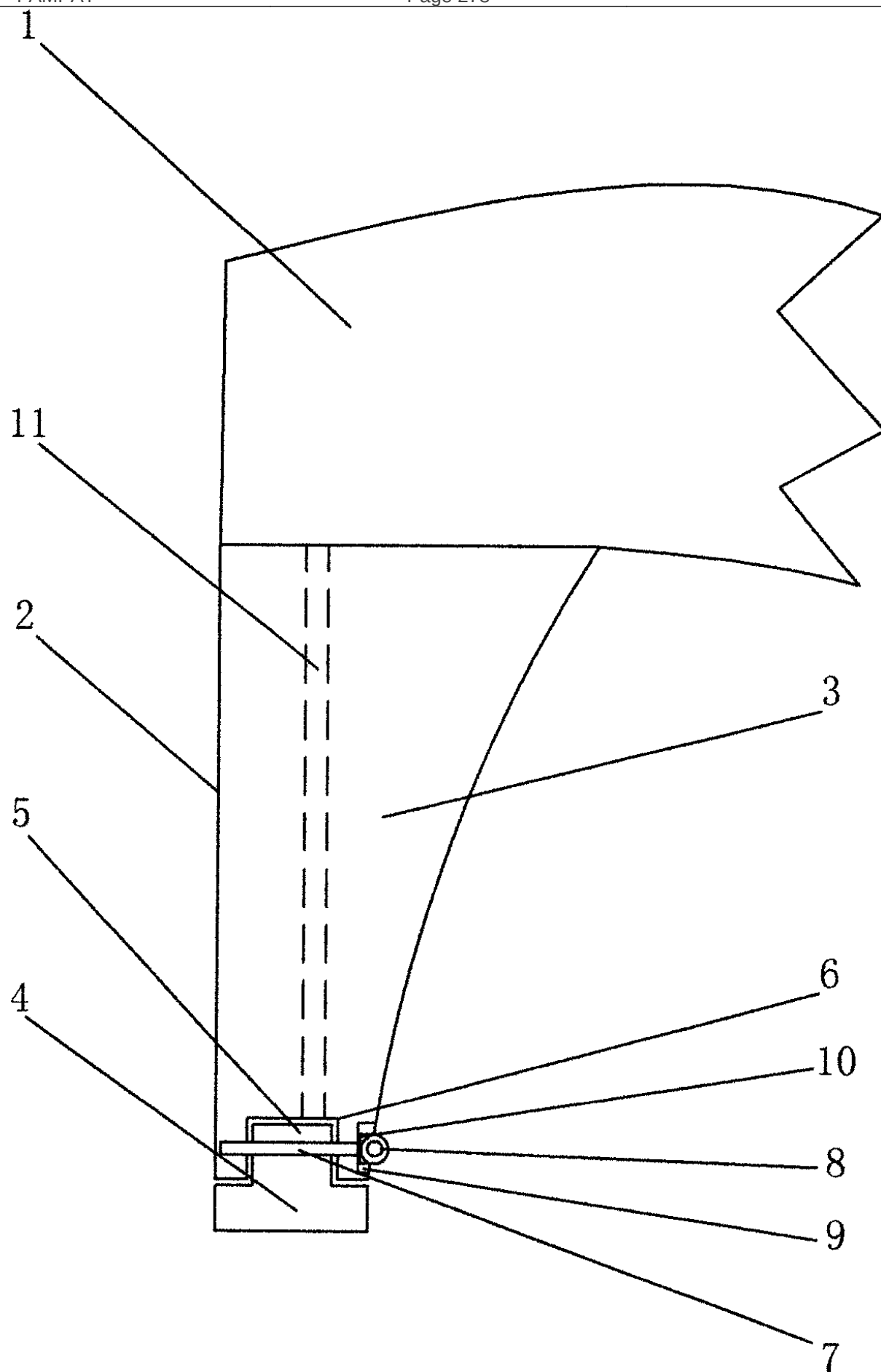
Family 245/432 - FAMPAT - ©Questel

Title

(CN203152679U)

Woman high-heeled shoe with detachable heel tip

Images



Publication data including kind & date

[CN203152679](#)

U 2013-08-28 CN203152679U



Abstract

(CN203152679)

The utility model relates to a pair of woman high-heeled shoes with detachable heel tips. Each high-heeled shoe with a detachable heel tip comprises a shoe body and a heel body which are connected with each other in a matching manner, and is characterized in that the heel body comprises an installation part and a heel tip part which are mounted on and connected to the bottom surface of the shoe body; a projection is arranged on a connection surface of the heel tip part and the installation part; a groove part as well as a fixed steel pipe is arranged in a position where the installation part is opposite to the projection; the fixed steel pipe transversally and simultaneously penetrates through side walls of the groove part and the projection; and a pull ring is arranged at the tail end of the fixed steel pipe. By adopting the structural design, the high-heeled shoe provided by the utility model has the benefits that when the heel tip is inserted into a small seam by accident, the pull ring at one end of the fixed steel pipe can be used to pull out the fixed steel pipe, so that the heel tip and the installation part can be separated, and then the heel tip can be abandoned directly; and compared with the action of taking off the shoe for pulling out the heel tip, more convenience is provided.

Inventors

CHI HEWU

CHI KEWEI

Latest standardized assignees - inventors removed

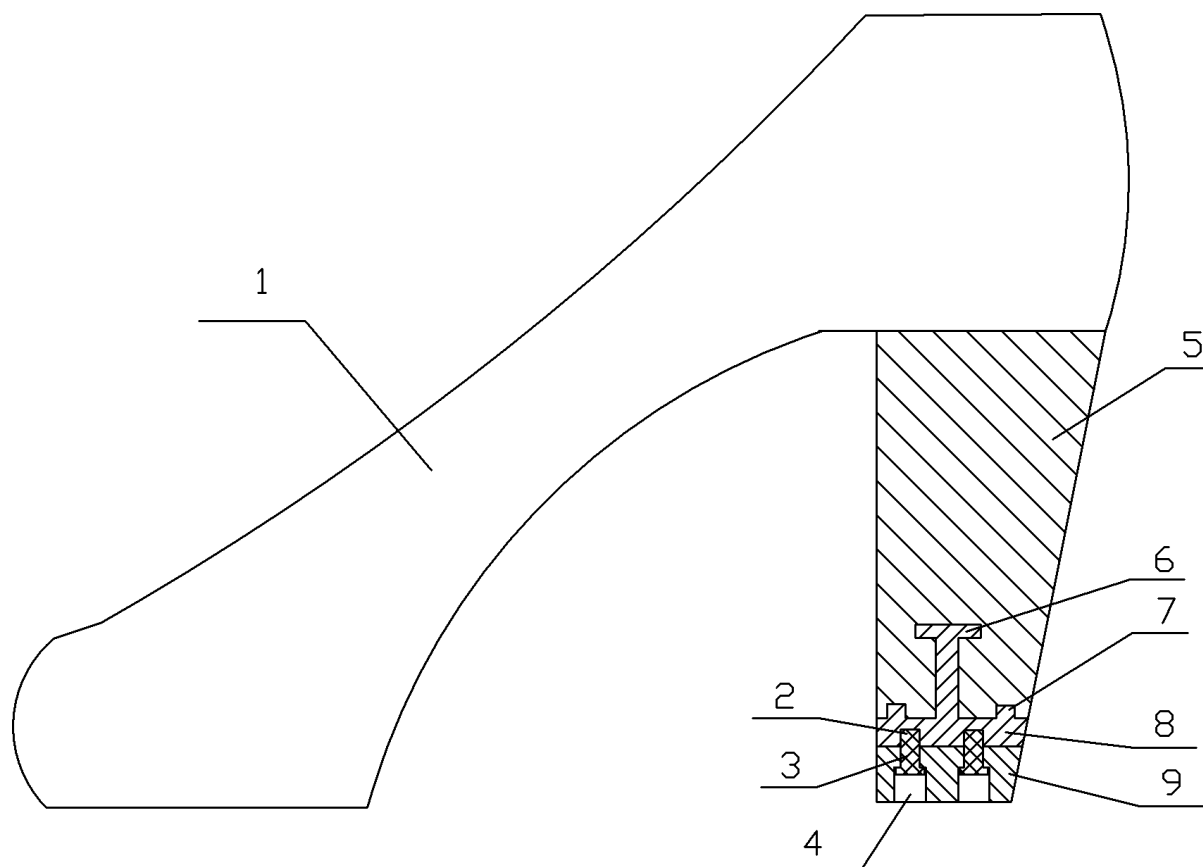
WENZHOU HEYU SHOE MATERIALS

Family 246/432 - FAMPAT - ©Questel

Title

(CN202456752U)

Movable pad high-heeled shoes

Images**Publication data including kind & date**[CN202456752](#)

U

2012-10-03

CN202456752U

**Abstract**

(CN202456752)

The utility model provides movable pad high-heeled shoes and relates to the technical field of high-heeled shoes. The high-heeled shoe comprises a shoe body and a shoe heel, wherein a small disk is arranged in the shoe heel, a straight rod

extends out of the lower part of the small disk, and a big disk extends out of the lower part of the straight rod; two protruding blocks extend out of the upper side of the big disk, the bottom end of the big disk is exposed from the shoe heel and is provided with two screw holes, and the lower side of the big disk is connected with a rubber pad; and the lower part of the rubber pad is provided with a groove, and a screw passes through the groove and is fixed in the screw hole so as to fix the rubber pad on the bottom end of the big disk. The movable pad high-heeled shoes are firm and durable, and the heel pads of the movable pad high-heeled shoes can be freely changed, so the service life of the movable pad high-heeled shoes is prolonged.

Inventors

YANG XIAOZHI

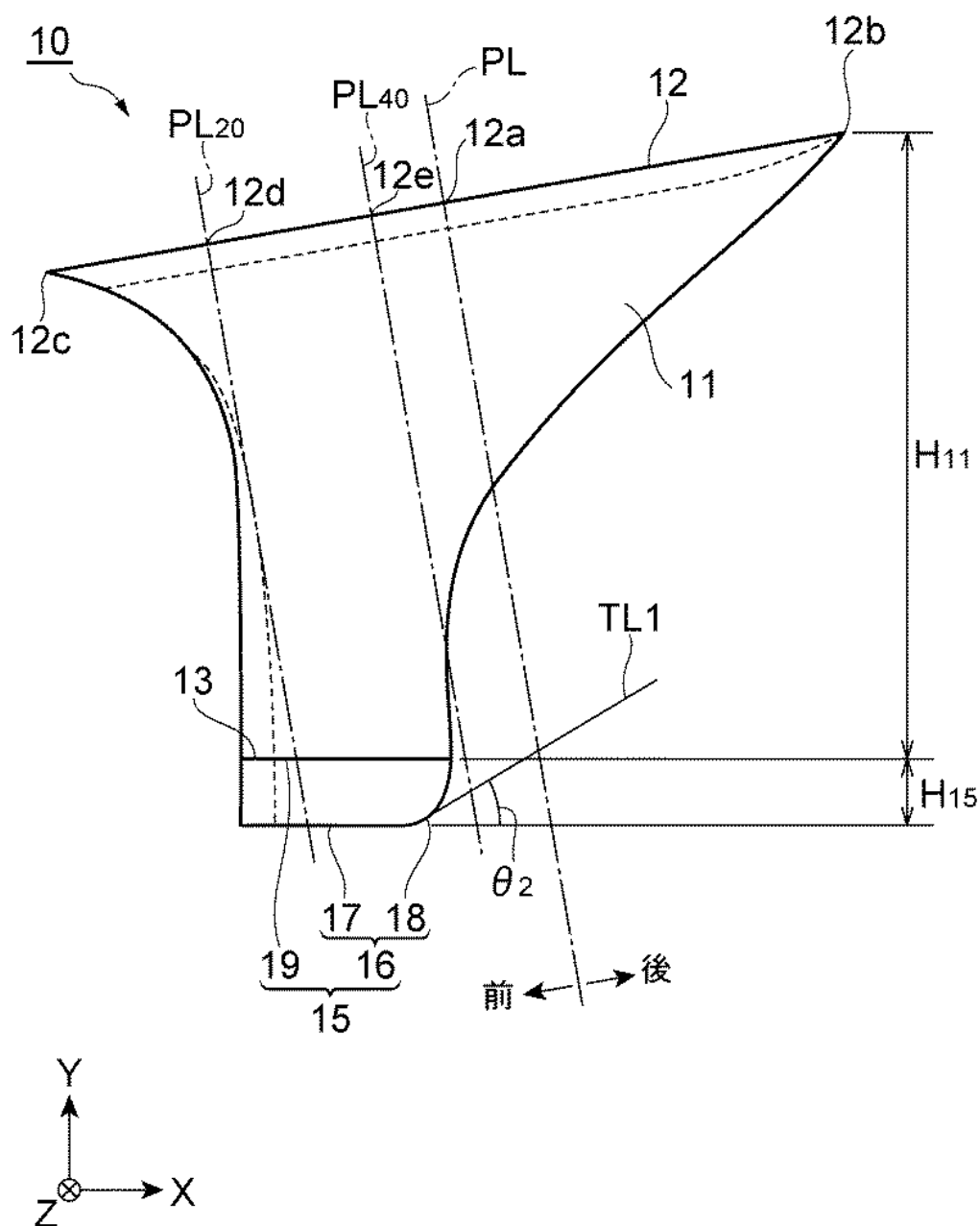
Family 247/432 - FAMPAT - ©Questel

Title

(JP2013081710)

Heel member and footwear provided with the same

Images



Publication data including kind & date

JP5978586

B2 2016-08-05

JP5978586

JP2013081710

A 2013-05-09

JP2013081710



Abstract

(JP2013081710)

PROBLEM TO BE SOLVED: To provide a heel member which enables smooth walking by ensuring stability during walking and improves standing stability in a stationary state and to provide a footwear provided with the same.

SOLUTION: The heel member 10 is formed to taper from the fixed surface 12 fixed to the shoe bottom part 3 of the heel part 9 of the footwear 1 toward a ground contact surface 16 coming into contact with a ground surface 30. The rear portion of the ground contact surface 16 has an inclination part 18 which inclines with respect to a front portion 17 coming into contact with the ground surface 30 in a stationary state. The inclination part 18 is formed in a position further forward than a perpendicular line PL at the central position 12a of the fixed surface 12 in the forward and backward directions.

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Inventors

Tomoyuki Hagiwara

INOUE ATSUKO

Atsuto Uemura

Latest standardized assignees - inventors removed

WACOAL

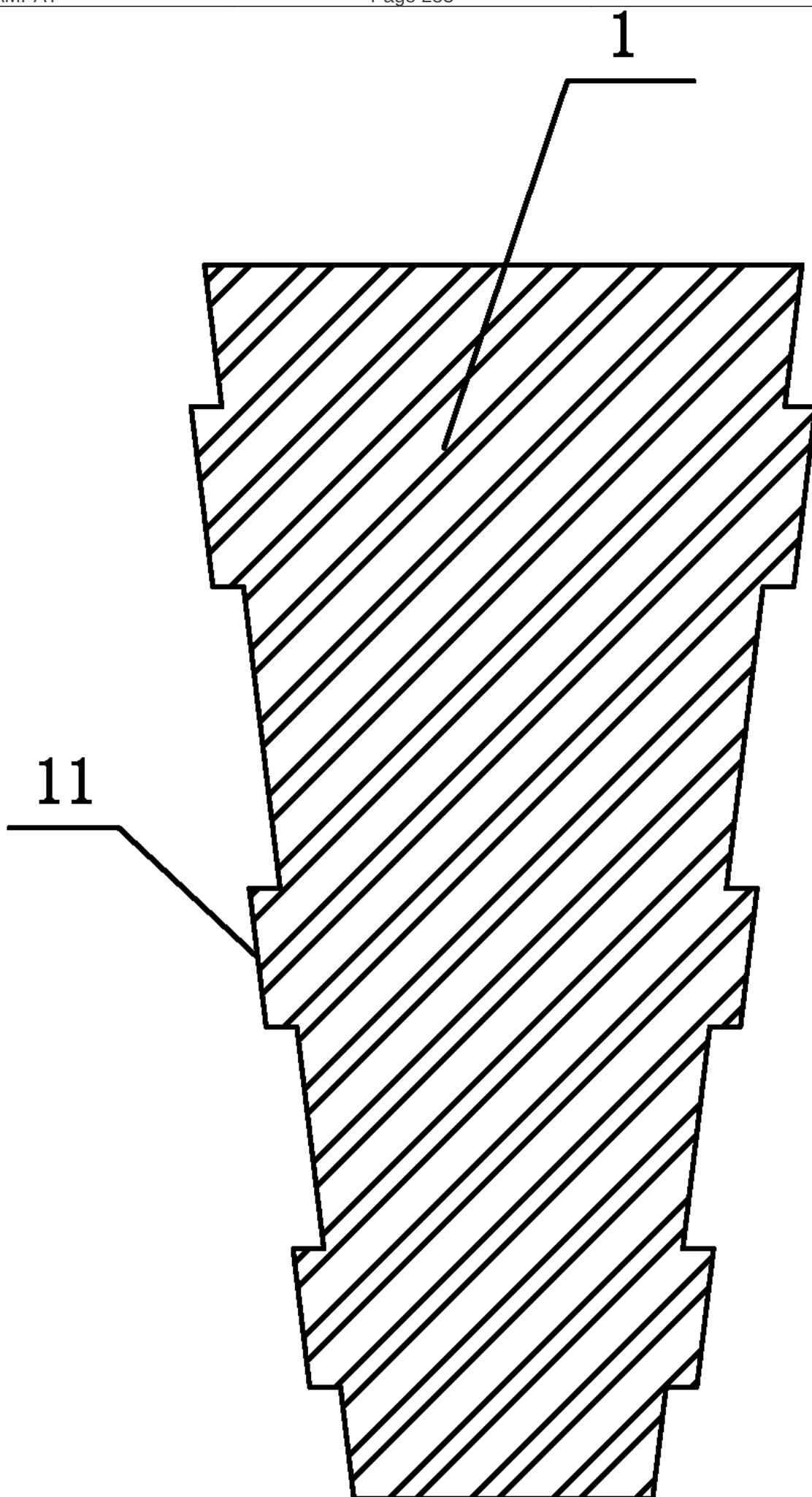
Family 248/432 - FAMPAT - ©Questel

Title

(CN102068083)

Detachable heelpiece

Images



Publication data including kind & date

CN102068083

A 2011-05-25

CN102068083

**Abstract**

(CN102068083)

The invention discloses a detachable heelpiece which comprises a centre cylinder body and a decorative shell, wherein the centre cylinder body and the decorative shell are connected into a whole in a detachable manner. The heelpiece disclosed by the invention is set as a mode that the centre cylinder body and the decorative shell are connected into a whole in the detachable manner, thus different heelpieces are replaced through replacing the decorative shell, and the pursuing of people for the fashion and beauty is met.

Inventors

WANG YONGQI

Latest standardized assignees - inventors removed

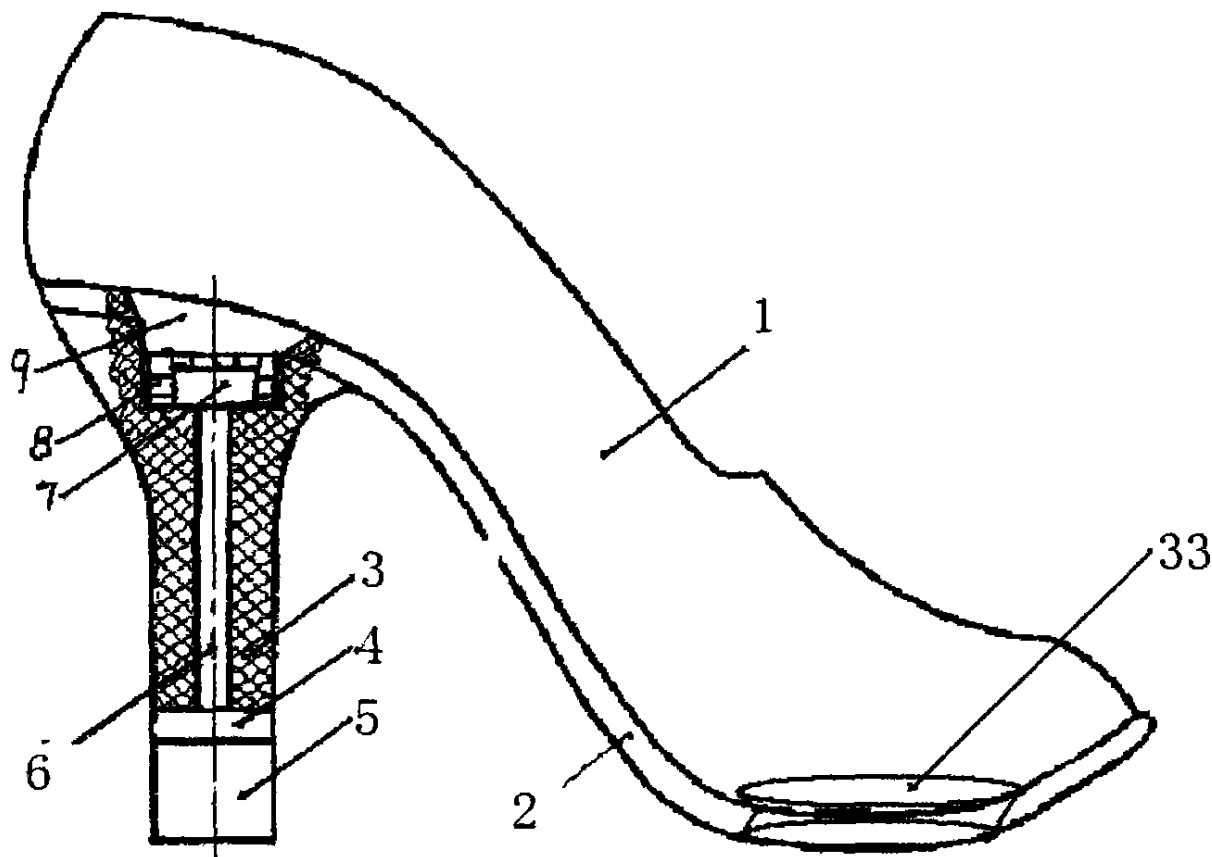
WUJIANG DONGTA SHOES

Family 249/432 - FAMPAT - ©Questel

Title

(CN102113733)

Health-care high-heeled shoes

Images**Publication data including kind & date**

CN102113733

A 2011-07-06

CN102113733

**Abstract**

(CN102113733)

The invention discloses a pair of health-care high-heeled shoes with wear-resisting heels. Each health-care high-heeled shoe comprises a vamp, an outsole, a high-heeled heel, and a big and small rotating wear-resisting devices assembly, wherein a groove is manufactured on the front end of each outsole and is internally provided with an air sac for massaging, and each air sac is internally provided with an ovoid magnet. Accordingly, the pair of health-care high-heeled shoes is comfortable to wear and has a certain massaging and health-care function.

Inventors

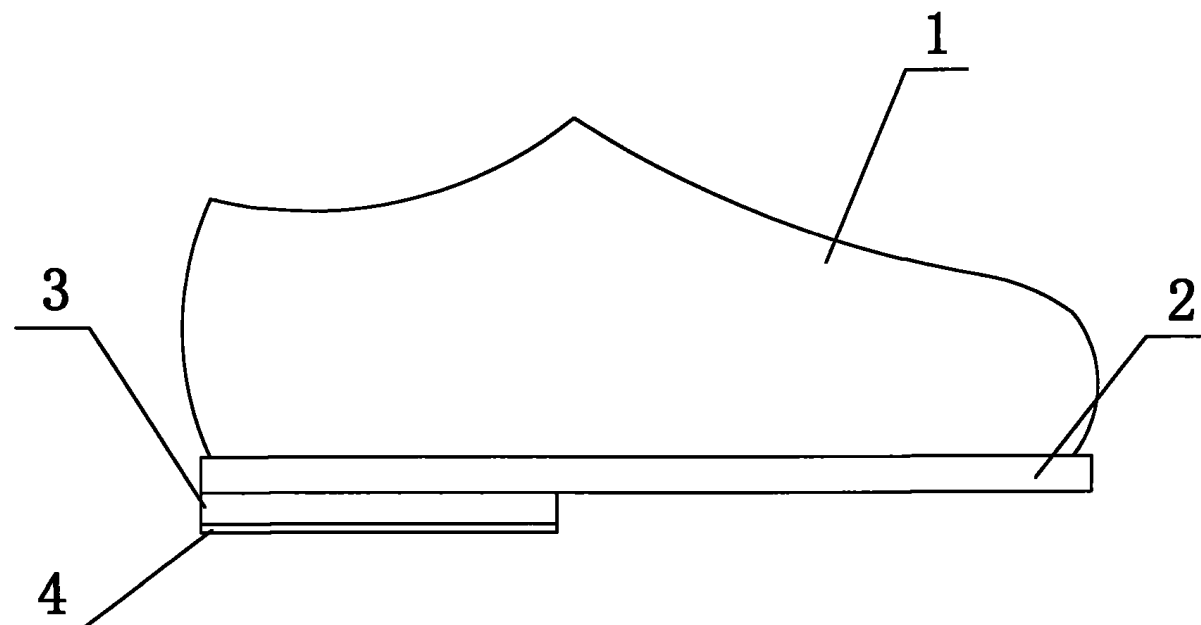
ZHANG LIPING

Family 250/432 - FAMPAT - ©Questel

Title

(CN201550702U)

Shoe

Images**Publication data including kind & date**[CN201550702](#)

U

2010-08-18

CN201550702U

**Abstract**

(CN201550702)

The utility model discloses a shoe which belongs to industrial products or articles for daily use. The shoe comprises a vamp (1), a sole (2), a heel (3) and a detachable abrasion-resistant layer (4), wherein the vamp (1) is fixed on the sole (2); the heel (3) is fixed below the sole (2); a plurality of conical holes are formed on the bottom surface of the heel (3); the detachable abrasion-resistant layer (4) is an independent body which is similar to the bottom surface of the heel (3); and conical bodies meshing with the conical holes on the heel (3) are arranged on the detachable abrasion-resistant layer. When abrades to certain extent, the detachable abrasion-resistant layer mounted on the sole or the heel can be dismounted and replaced simply by a user, and then the sole can become level and attractive again, and wearing is not affected. Besides, the shoe with simple structure is suitable for industrialized production and is easy to popularize.

Inventors

ZHANG LIANGCHEN

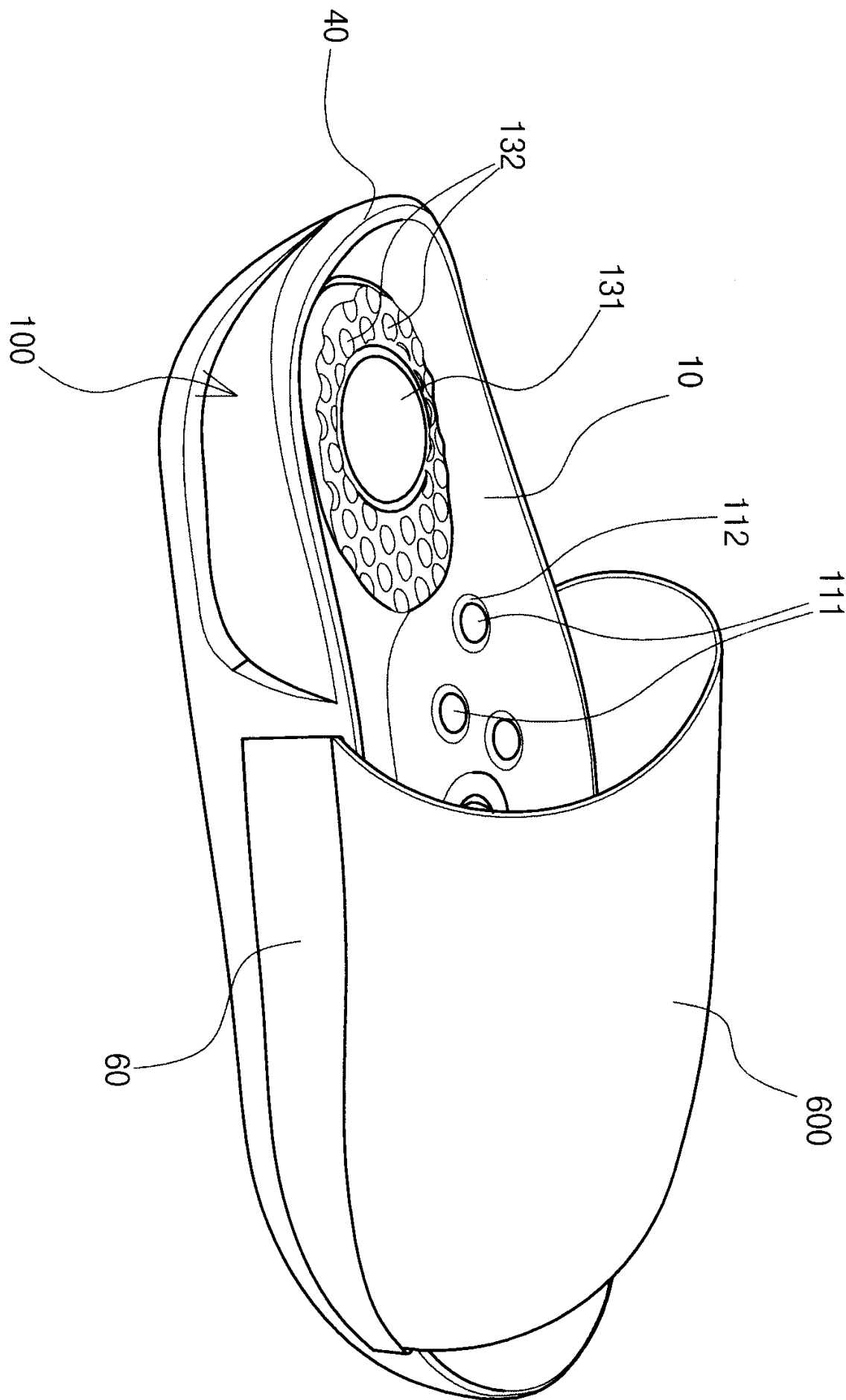
Family 251/432 - FAMPAT - ©Questel

Title

(KR20110053140)

The multi-functional shoes

Images



(KR20110053140)

PURPOSE: A multifunctional footwear is provided to separate foot insole contact part and ground contact part.

CONSTITUTION: A multifunctional footwear comprises: a shoe insole(100) in which the outer circumference is integrally fused to form a closed air space; a foot insole contact part which entirely form recess form by upward protrusion of the outer circumference; a ground contact part having various cushion parts corresponding to the acupressure protrusion; a heel which is changeably coupled; and a leather(600) which is combined to the side of the shoe sole side.

Inventors

KIM, HYEON-HWA

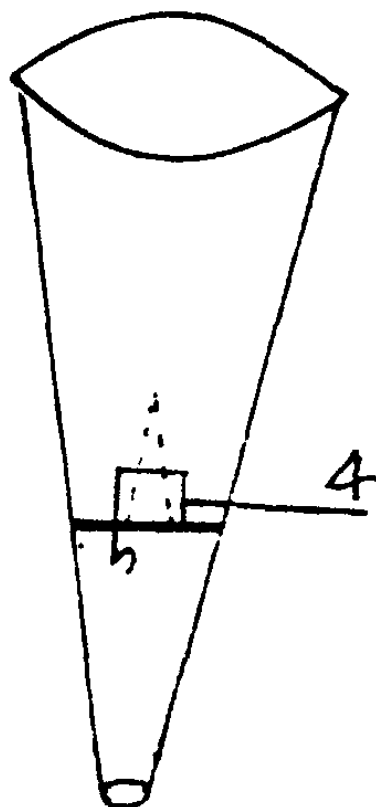
Family 252/432 - FAMPAT - ©Questel

Title

(CN2110390U)

Woman deformable high-heels

Images



Publication data including kind & date

CN91214646	Y	1993-03-17	CN91214646U
CN2110390	U	1992-07-22	CN2110390U

**Abstract**

(CN2110390)

The utility model discloses a woman deformable high-heel. The high-heels of shoes are divided into an upper part and a lower part by the woman deformable high-heels. The bottom surface of the upper part is provided with a conical hole, the top surface of the lower part is provided with a conical nose, and the upper part is connected with the lower part by the conical hole, the nose and screw threads. Then the upper part is fixed with the lower part by agraffes. The woman deformable high-heels which have a simple structure, are suitable for flat heels, high heels and adjustable height heels.

Inventors

LI XIAOXIAN

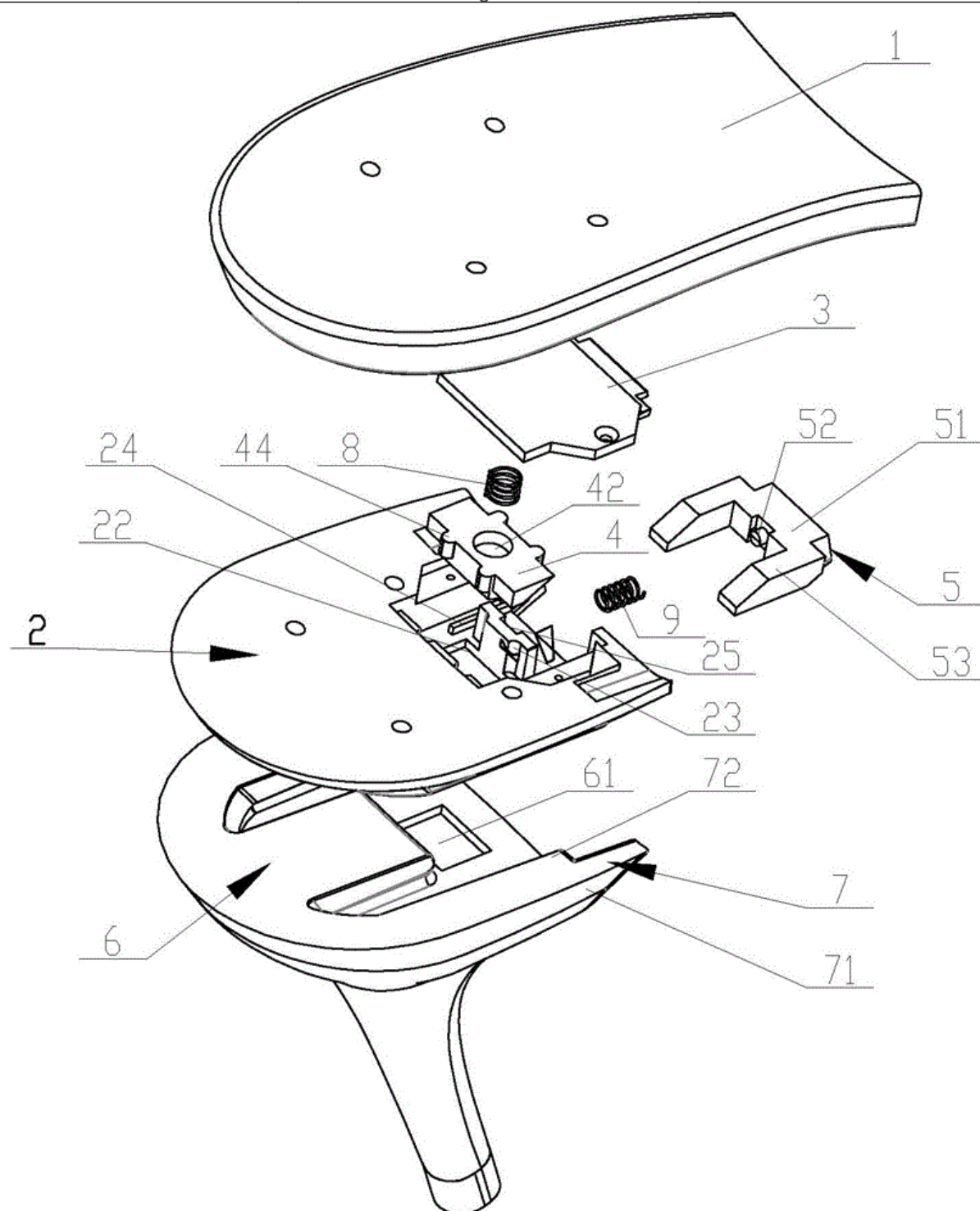
Family 253/432 - FAMPAT - ©Questel

Title

(CN205993747U)

Convenient heel device of changing

Images



Publication data including kind & date

[CN205993747](#)

U 2017-03-08 CN205993747U



Abstract

(CN205993747)

The utility model discloses a convenient heel device of changing, it is protruding including heel shoe -pad, joint seat, joint recess, heel and joint, still be equipped with spacing notch on the heel, run through the joint seat and be equipped with the installing port, movable mounting has heel locking device in installing port and the spacing notch, and joint seat one side is equipped with the operation recess, and movable mounting has operating button in the operation recess, through removing the heel, make the joint structure perfect fitting on joint seat and the heel, and cooperate spacing notch and heel locking device to be locked, install the heel on the joint seat, normal use could this moment, when needing to be changed, press operating button with heel locking device jack -up, make it break away from spacing notch, promote the heel to the lateral part simultaneously, can dismantle the heel get off, it is equipped with different thicknesses and figurative a plurality of heel to make shoes correspond, change simply, it is convenient, through changing the heel, the occasion that makes the pair

ZHANG HUA

Latest standardized assignees - inventors removed

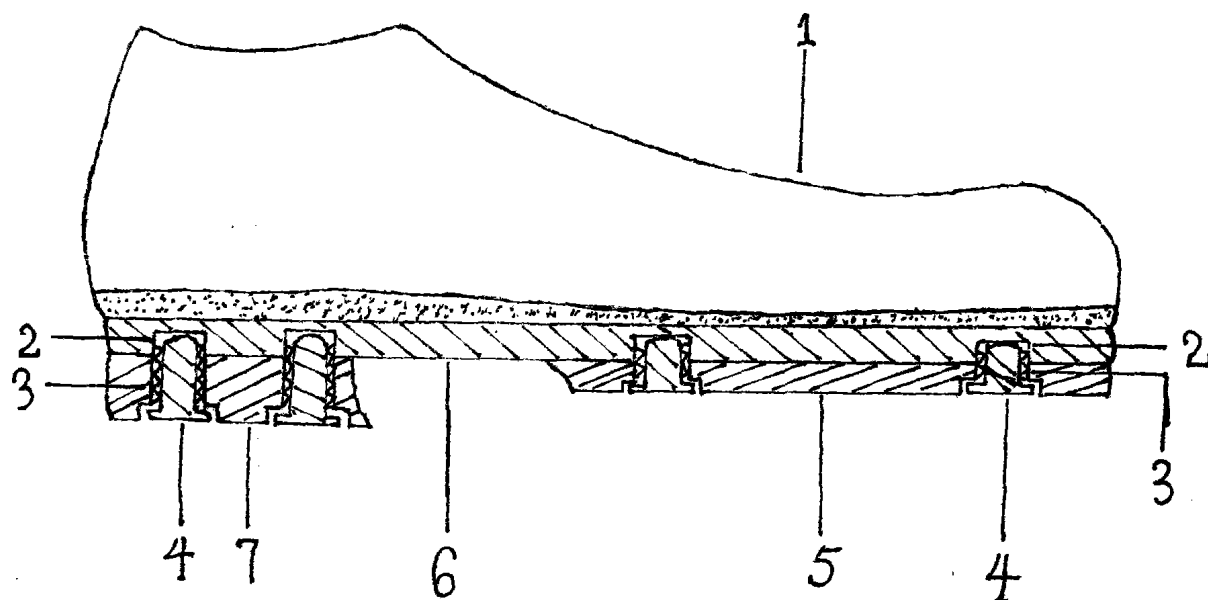
WENZHOU UNIVERSITY

Family 255/432 - FAMPAT - ©Questel

Title

(CN202664434U)

Double-layer changeable sole

Images**Publication data including kind & date**[CN202664434](#)

U

2013-01-16

CN202664434U

**Abstract**

(CN202664434)

The utility model provides a double-layer changeable sole which comprises an upper and a fixed sole, wherein the fixed sole is fixed at the bottom end of the upper by virtue of the combination of stitching and gluing; the front end and rear end of the fixed sole are provided with fixed screw holes; upper nut sleeves are inlaid in the fixed screw holes; a layer of front sole is arranged below the front end of the fixed sole; the front sole is provided with fixed screw holes which are corresponding to upper nuts at the front end of the fixed sole in a matching mode; lower nut sleeves are inlaid into the fixed screw holes of the front sole; a rear heel is arranged below the rear end of the fixed sole; the fixed screw holes of the rear heel are corresponding to the upper nut sleeves at the rear end of the fixed sole in the matching mode; lower nut sleeves are inlaid in the fixed screw holes of the rear heel; the front ends of the front sole and the fixed sole are overlapped; the upper nut sleeves are corresponding to the lower nut sleeves; screw nails penetrate into the nut sleeves from the lower nut sleeves and then are screwed down, so that the front sole and the fixed sole are fixed; the rear ends of the rear heel and the fixed sole are overlapped, and upper nuts and lower screw nails are screwed down, so that the rear heel and the fixed sole are fixed; when the front sole and the rear heel are worn out, the screw nails can be screwed out of the upper and lower nut sleeves so that the front sole and the rear heel are take down and replaced by a new front sole and a rear heel; and the lower nut sleeves of the front sole and the lower nut sleeves of the rear heel are corresponding to the upper nut sleeves at the front and rear ends of the fixed sole, and screw nails penetrate into the nut sleeves and then are screwed down, so that the front sole and the rear heel are fixed with the fixed sole .

Inventors

LEI ZHAOXIONG

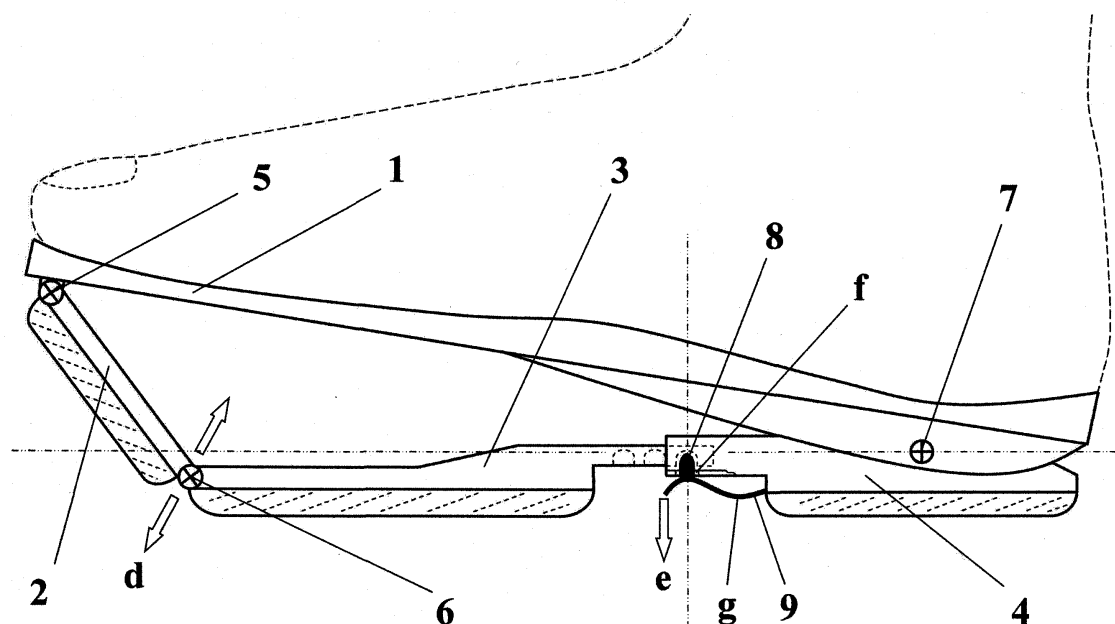
Family 256/432 - FAMPAT - ©Questel

Title

(WO201311204)

Sole which is adjustable back and forth for shoes and the like

Images



Publication data including kind & date

FR2978018	B1	2014-08-22	FR2978018
WO2013/011204	A3	2013-07-18	WO201311204
FR2978018	A1	2013-01-25	FR2978018
WO2013/011204	A2	2013-01-24	WO201311204



Abstract

(WO2013/011204)

A sole which is adjustable back and forth for shoes and the like comprises two parts along the articulation (7) forming its horizontal axis, the top part (1) and the bottom part resting on the ground, characterized in that the bottom part consists of three parts, the front part (2) connected by the articulation (6) to the part (3), which is itself connected to the part (4) by virtue of the telescopic principle, being adjustable by blocking with the stud (8) located between the two parts (3 and 4), enabling the articulation (5) located at the end of the part (1) to be varied from the bottom to the top in the region of the articulation (7) located at the other end of the part (1) thus connecting the two parts (1 and 4), thereby allowing the top part (1) to be in a downward or upward posture in order to be used.

Inventors

MUSCOCEA ANGHEL

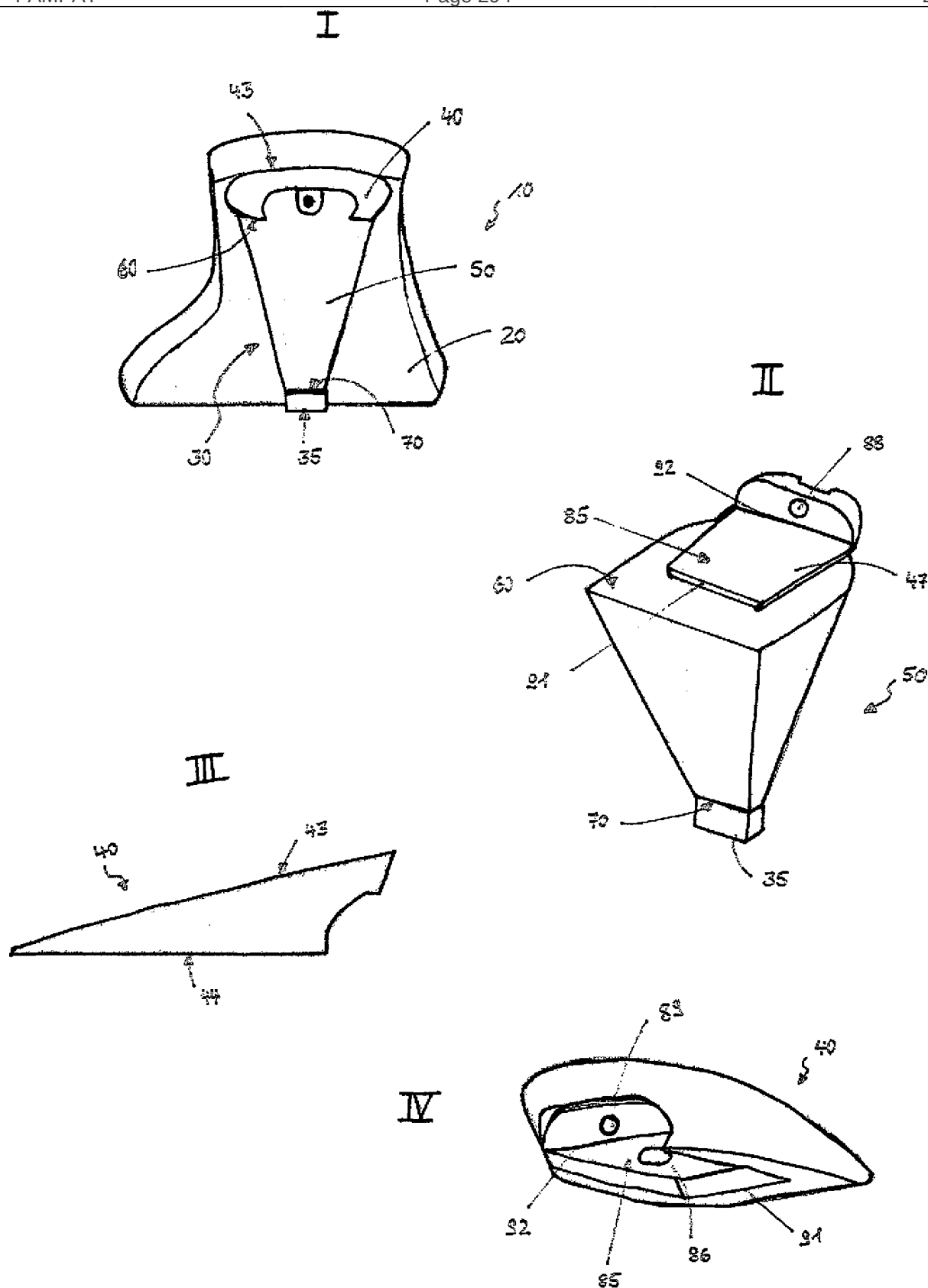
Family 257/432 - FAMPAT - ©Questel

Title

(DE202011102013)

Shoe heel shoe variable

Images



Publication data including kind & date

DE202011102013

U1 2012-03-01

DE202011102013



Abstract

(DE202011102013)

Variable shoe heel of a shoe, in particular for a lady's shoe, comprising: a first step and a second end (44) member having a first (40) end (43), wherein the first heel element (40) is connected at its first end (43) with a shoe sole (20); at least one second heel element (50) having a first end (60) and a second end (70), wherein the first end (60) of the second shoulder element and the second (50) end of the first (44) shoulder member (40) can be engaged by a guide device (85), which is designed, acts against a relative displacement or uncoupling, only by its tapered shape by a self-locking connection

between the first and second heel element (50) produces heel element (40).

Latest standardized assignees - inventors removed

GRZENIA VIOLETTA

WAGNER ANDREAS

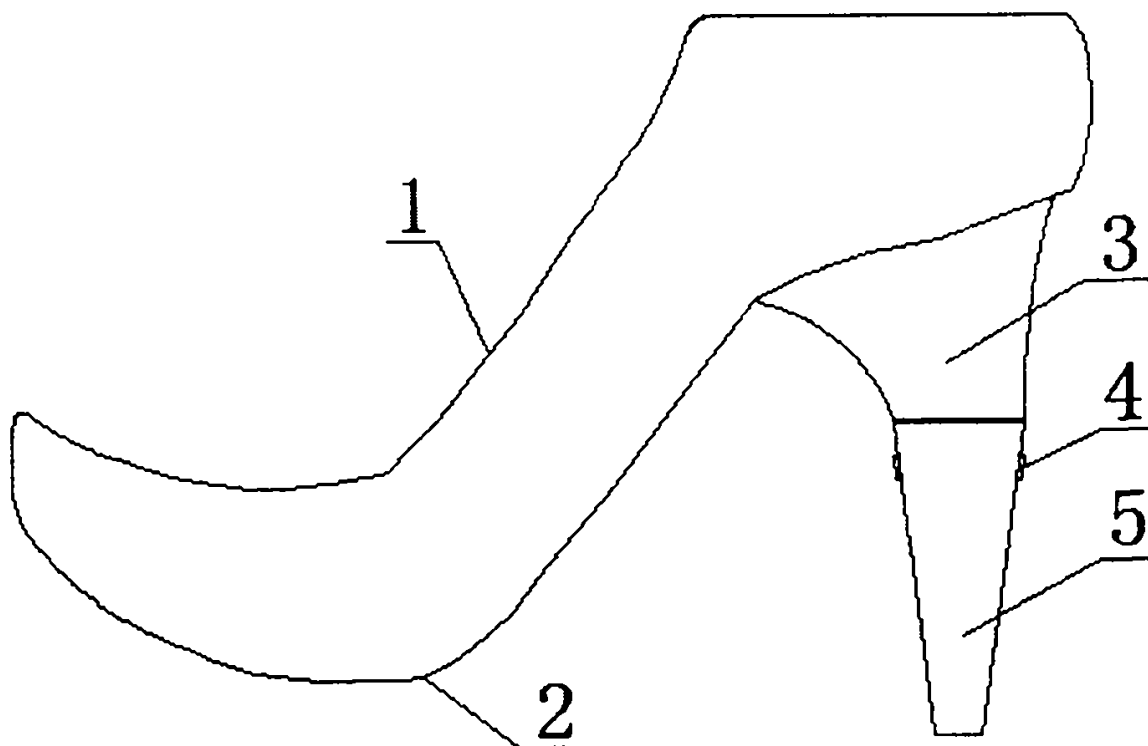
Family 258/432 - FAMPAT - ©Questel

Title

(CN202014663U)

Multipurpose lady shoe

Images



Publication data including kind & date

[CN202014663](#)

U 2011-10-26 CN202014663U



Abstract

(CN202014663)

The utility model relates to a multipurpose lady shoe comprising a vamp, a sole, a heelpiece, a button and a heel, and the vamp is fixed to the edge of the sole along the edge of the vamp. The heelpiece is shaped as an irregular cone having a big end and a little bit smaller end, wherein the bigger end is an upper top surface fixed to the rear bottom of the sole, and the smaller end is a lower bottom surface provided with a slotted hole. The upper end of the heel is provided with the moveable button and connected with the slotted hole of the heelpiece by the button. The multipurpose lady shoe can not only exchange heels with different styles but also exchange heels with different heights or thicknesses according to demands, and is convenient to exchange, affordable in price and fit for female crowd pursuing the vogue.

Inventors

LUAN MENGYUN

LUAN YULONG

YANG MENG

Family 259/432 - FAMPAT - ©Questel

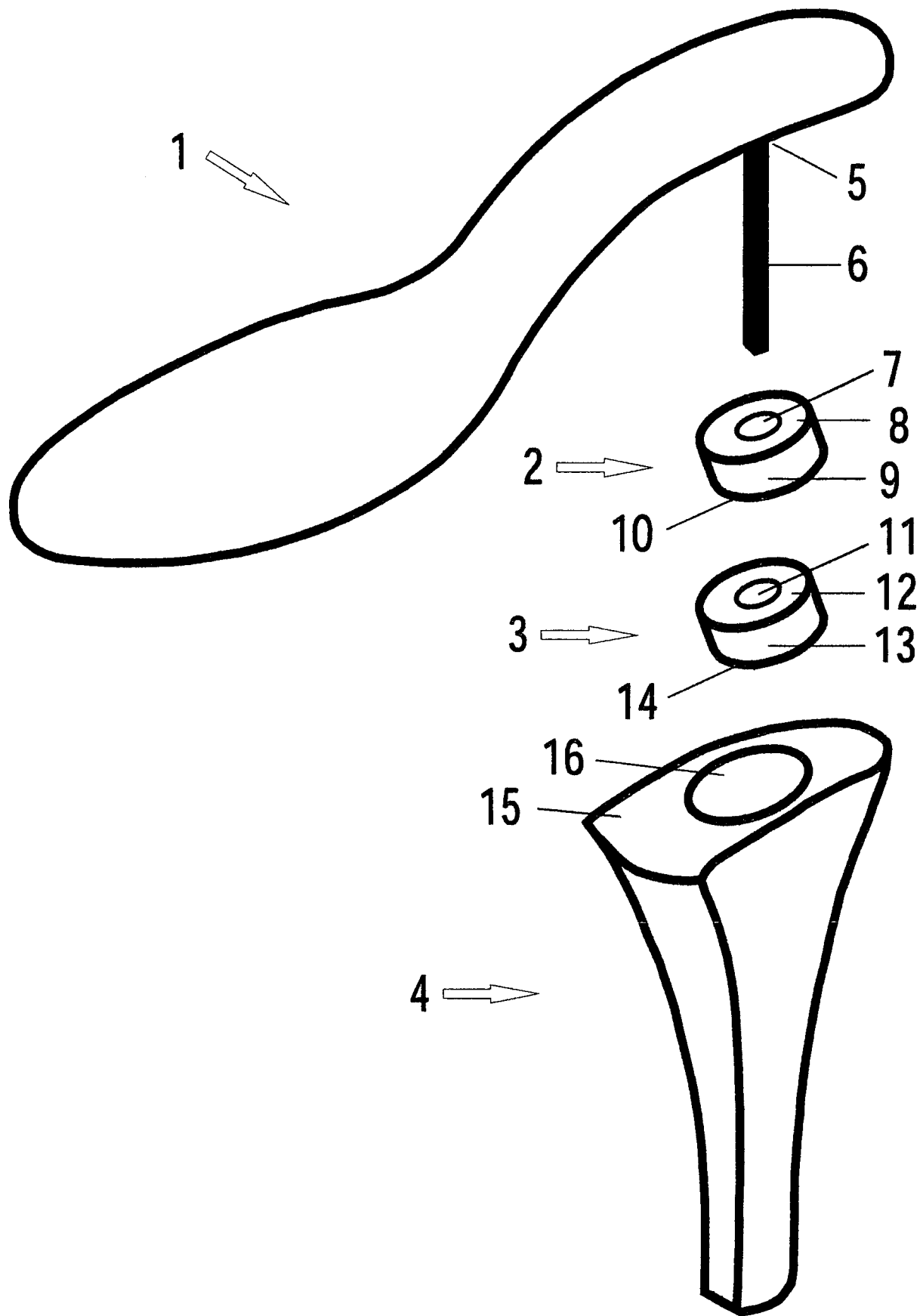
Title

(DE102008017674)

Shoe structure for shoe, has exchangeable heel, which is connected and stabilized with shoe sole by two mechanisms, and

non round stud is provided, which is mounted at shoe bottom

Images



Publication data including kind & date

[DE102008017674](#)

A1 2009-10-15

DE102008017674



Abstract

(DE102008017674)

The shoe structure has an exchangeable heel (4), which is connected and stabilized with the shoe sole by two

mechanisms. A non round stud (6) is provided, which is mounted at the shoe bottom. The stud is placed at the sole by usual mounting unit (5). Two magnets (2,3) are provided, in which the latter is mounted around the recess of the heel in annular manner.

Inventors

DZIENIEWICZ PETER

MALINOWSKI JOCHEN

NUERNBERGER VERONIKA

Family 260/432 - FAMPAT - ©Questel

Title

(CN101171985)

Men's footwear heel and bottom surface replacing device

Publication data including kind & date[CN101171985](#)

A

2008-05-07

CN101171985

**Abstract**

(CN101171985)

The invention discloses a male shoe heel bottom surface changing device, which comprises a heel top piece surface comprising a touchdown groove, small holes and a contact surface, and a heel bottom surface provided with corresponding points and connected with the heel top piece. The heel top piece and the heel bottom surface are all made of slope surfaces. The heel top piece comprises the heel top piece and the heel bottom surface arranged on parallel planes and correspondingly connected with the heel top piece, screws smaller than the groove at the corresponding points of the heel bottom surface in the touchdown groove of the heel top piece penetrate to the small holes on the contact surface to be positioned on a vertical line, thread nails are positioned into the small holes to be connected with the corresponding points of the heel bottom surface, and rotated forwards, the screw heads are rotated to the mouths of the small holes in the groove, without being loose; the thread nails are rotated backwards, and removed from the internal bottom of the groove on the small hole mouths, and the screw tips are separated from the corresponding points of the heel bottom surface, and then the heel top piece is removed. By adopting the changing device, the heel top piece and the heel bottom surface of the slope surfaces are correspondingly connected, the secondary use of the screws can be ensured, and the change is easy. The heel top piece and the heel bottom surface on the parallel planes are selected to be correspondingly connected, the front end and the rear end of the heel top piece are arranged uniformly and consistently and coordinated with the heel bottom surface, the secondary use of the screws can be ensured, and the change is easy.

Inventors

CHEN BING

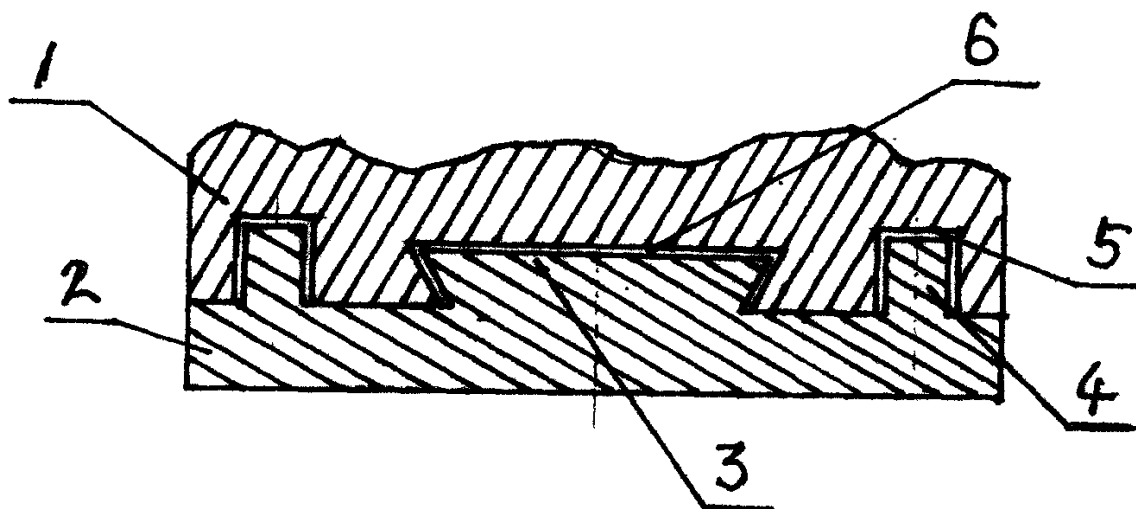
Family 261/432 - FAMPAT - ©Questel

Title

(CN200944882U)

Coattail type movable sole

Images

**Publication data including kind & date**[CN200944882](#)

Y

2007-09-12

CN200944882U

**Abstract**

(CN200944882)

The utility model relates to a dovetail type movable shoe tread that is comprised of a fixed heel (1), a changeable heel (2), a taper plate (3), a fixed post (4), a fixed hole (5), and a taper groove (6). The middle part of the fixed heel (6) is connected with the taper groove (6), while the circumference is provided with the fixed hole (5); and the changeable heel (2) is provided with the fixed post (4) that is connected with the taper board (3) matched with the taper groove (6) and is provided with the fixed hole at the circumference. Compared with the previous technique, the utility model can easily change the shoe tread without any tool, and the complete structure is nice and natural after the worn tread is changed.

Inventors

ZHENG WEI

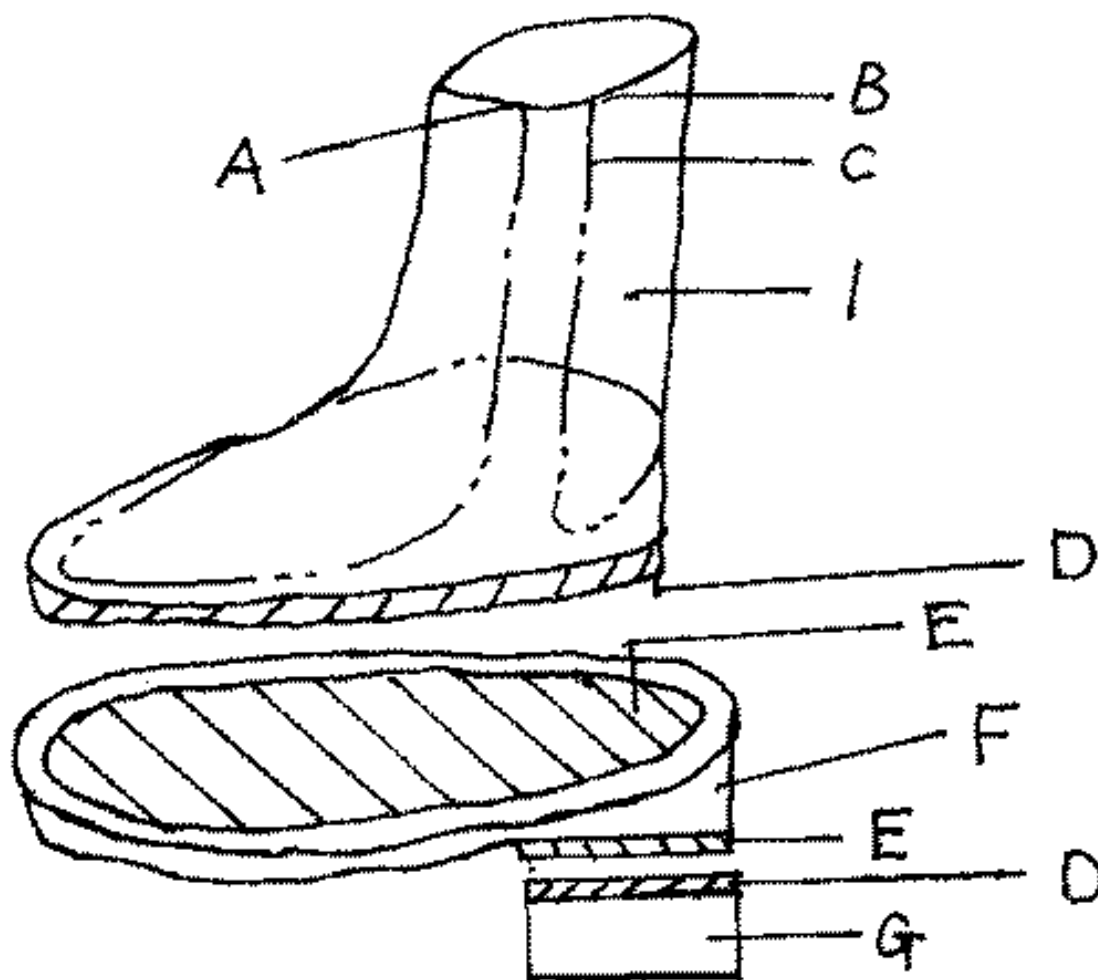
Family 262/432 - FAMPAT - ©Questel

Title

(JP2005007158)

Footwear with wear-resistant footwear-sole constituted of instep-footwear and footwear-sole separably combined

Images

**Publication data including kind & date**

JP2005007158

A 2005-01-13 JP2005007158

**Abstract**

(JP2005007158)

PROBLEM TO BE SOLVED: To facilitate the replacement of the sole of conventional footwear, the replacement of a tread portion due to wear or the removal of water or stains.

SOLUTION: The footwear is separated into an independent footwear-sole and a piece of independent instep-footwear. The instep-footwear is designed to be used indoors and outdoors and in winter and summer. For the footwear-sole, the forward trodden portion and the trodden heel portion are made separable by using a Velcro fastener. The trodden heel portion is oval and the wear thereof is uniformed by replacing the front with the rear and the right with the left four times. The instep-footwear and the footwear-sole are connected with a Velcro fastener for walking. The right and left of the footwear-sole are equal in size and flat. By replacing the front with the rear and the right with the left, the wear is countered and the sole can be used indoors and outdoors. Water or stain can be removed by opening and closing the fastener of the instep-footwear.

COPYRIGHT: (C)2005,JPO&NCIP

Inventors

MISHIMA KAZUYOSHI

MISHIMA MASAHIRO

Kazuko Osaka

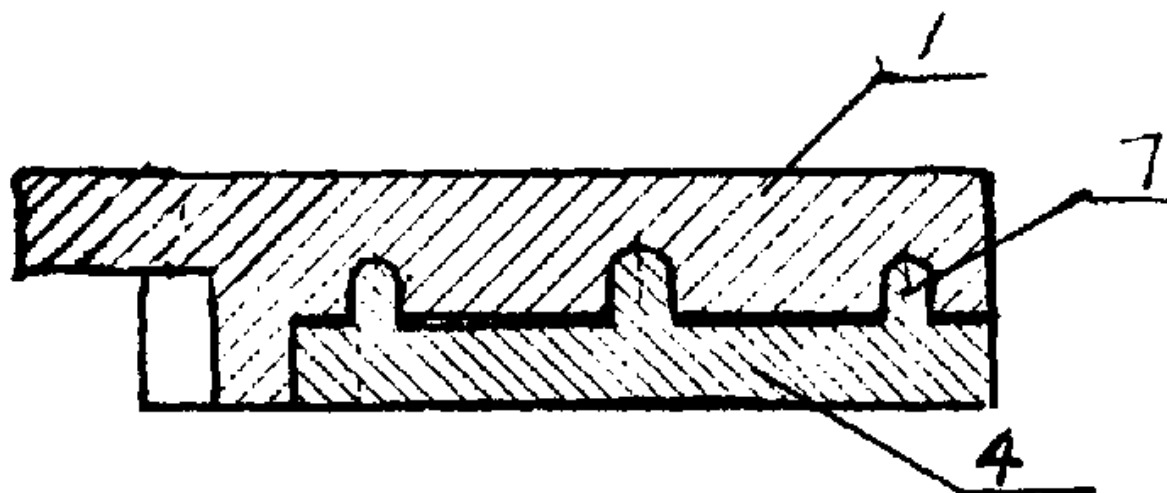
Family 263/432 - FAMPAT - ©Questel

Title

(CN2559239U)

Replaceable heels

Images



Publication data including kind & date

CN2559239

Y

2003-07-09

CN2559239U



Abstract

(CN2559239)

The utility model relates to displacement shoe heels installed on the heel parts which can be positioned and replaced. The utility model is characterized in that the displacement shoe heels comprise fixed heels with gap grooves, and removable heel blocks, the grooves are arranged inside pin holes and can be tightly matched with the short pins of the removable heel blocks, the fixed shoe heel bottoms are a main body or adhered and connected with the shoe bottoms, when the shoe heel sides are excessively wearing, by utilizing the removable heel blocks of the utility model, the removable heel blocks are reinstalled by changing a new position, which is equivalent to that a new shoe heel is replaced, and the servicing life of the shoes is prolonged.

Inventors

XU SENLIANG

Family 264/432 - FAMPAT - ©Questel

Title

(JP3072787U)

With a cover Wear Protection Hirukiyatsupu dance shoe for women

Publication data including kind & date

JP3072787

U

2000-11-02

JP3072787U



Abstract

(JP3072787)

Practical [Abstract] hollow sliding Caged 'the problem of' dance prevent dangerous, made of a synthetic resin non-adhesive at the lower end of the planar portion of the natural leather Kiyatsupu to be joined. And attaching a small octadecendioic Verdet Kiyatsupu itself without feeling, and the number, does not feel an impact to the foot, natural, durable, does not wear, can be easily detached Kiyatsupu mokumegane the like to satisfy the dance shoe Hirukiyatsupu. ' Solutions' plastic leather shoe heel support tube and the lower portion of the envelope, the rear lower end of the tube corresponding to the projecting portion, the leather cover for preventing wear to the support. The lower end of the cylinder is fitted to the inner cover is fixed with the exception of the bonding medium. The flat bottom of the shoe heel at the rear of the leather in a portion corresponding to the separation, the cover can be engaged onto the molding a leather, leather cover adhered to the adhesive medium and made of the abrasion prevention, leather shoes with the cover for preventing wear to the dance mokumegane Hirukiyatsupu.

Inventors

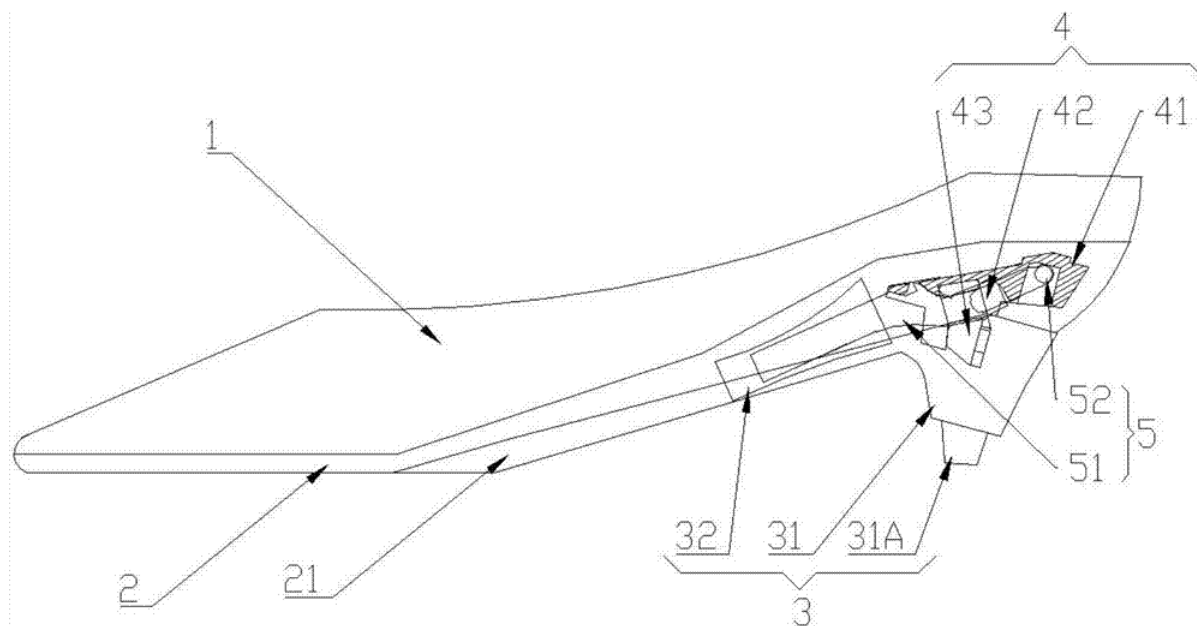
JINEN ISAO

Family 265/432 - FAMPAT - ©Questel

Title

(CN207070909U)

Folding high -heeled shoes of adjustable height

Images**Publication data including kind & date**

[CN207070909](#)

U

2018-03-06

CN207070909U

**Abstract**

(CN207070909)

The utility model discloses a folding high -heeled shoes of adjustable height, including the shoes bodies, heel and sole, the heel including the first heel that is fixed in the sole rear portion and top with the second heel that first heel bottom block is connected, first heel forms an organic whole with sole fixed connection, and the association and the shoes body block of first heel and sole are connected, the bottom of the shoes body is equipped with stop gear, planetary axis and stay with combination department of first heel, and the stay is connected with planetary axis to be connected with second heel block, but the rotatability through planetary axis realizes the rotation of stay and second heel, and then realize the conversion of second heel and first heel, and then realize high following and low conversion of following, and then make the women can select the adjustable of the state of heel, realization high -heeled shoes height according to the demand when wearing high -heeled shoes.

Inventors

XIE CHONG

XIE AIPING

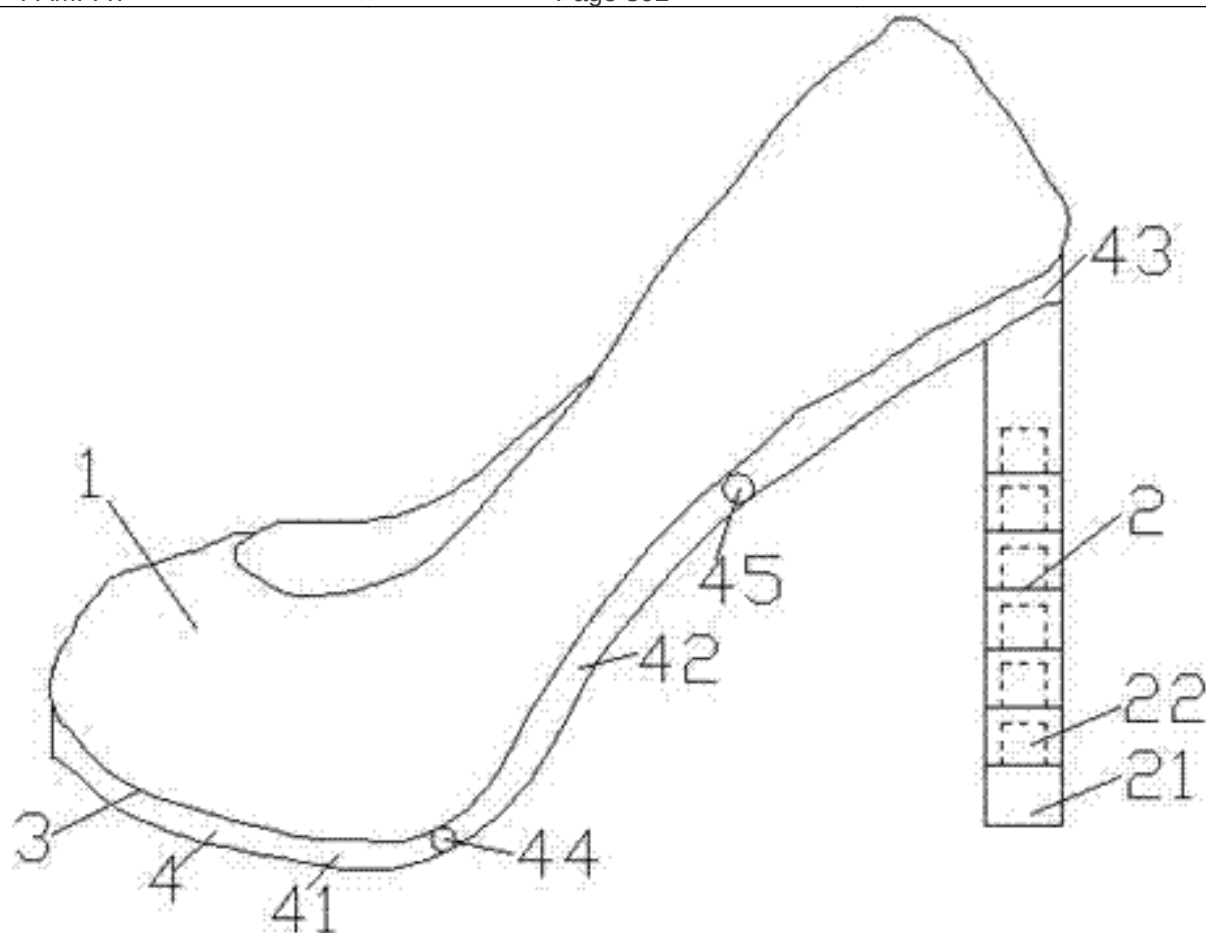
Family 266/432 - FAMPAT - ©Questel

Title

(CN206472936U)

Adjustable high -heeled shoes

Images

**Publication data including kind & date**[CN206472936](#)

U

2017-09-08

CN206472936U

**Abstract**

(CN206472936)

The utility model discloses an adjustable high-heeled shoes, including heel, the shoes body, sole and waterproof platform, sole fixed mounting is in the bottom portion of the shoes body, and waterproof platform fixed mounting is in the bottom of sole portion, and heel fixed mounting is at the back tip of waterproof platform, waterproof platform comprises waterproof platform a tip, waterproof platform b tip and waterproof platform c tip, and waterproof platform a tip carries out fixed connection with waterproof platform b tip through connecting piece a, and waterproof platform b tip carries out fixed connection with waterproof platform c tip through connecting piece b, the heel carries out detachable being formed by connecting heel an and heel b. The utility model discloses a waterproof platform carries out fixed connection through waterproof platform a tip, waterproof platform b tip and waterproof platform c tip, through the cooperate use of connecting piece with positioning groove, effectively realizes the regulation of the arc angle of waterproof platform a tip, waterproof platform b tip and waterproof platform c tip for the bending amplitude and the heeled height of waterproof platform carry out the holding control, improve user's degree comfortable and easy to wear.

Inventors

ZHOU ZHONGMEI

Latest standardized assignees - inventors removed

JIANGSU COLLEGE OF ENGINEERING & TECHNOLOGY

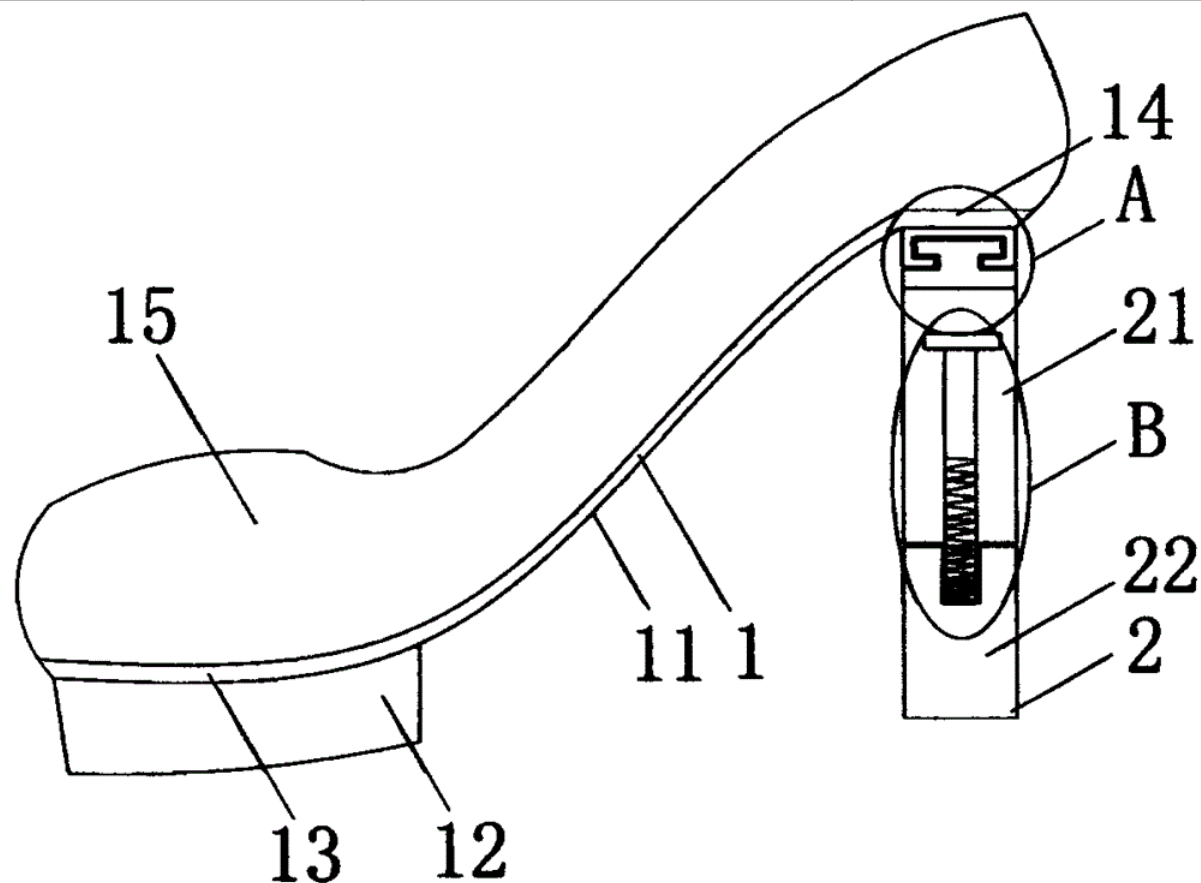
Family 267/432 - FAMPAT - ©Questel

Title

(CN206101780U)

Can dismantle high-heeled shoes

Images

**Publication data including kind & date**

CN206101780

U

2017-04-19

CN206101780U

**Abstract**

(CN206101780)

The utility model discloses a can dismantle high -heeled shoes, including the shoes body, the shoes body is including the sole, the one end fixed mounting of sole bottom has the sole lug, the other end fixed mounting of sole bottom has the heel, the heel includes first heel, second heel and disassembly body, disassembly body includes connection box and horizontal piece, connection box fixed mounting is in the bottom of sole, the bottom movable mounting of connection box has the cutting, the outer wall of connection box and cutting all is provided with bump, the bottom fixed mounting who transplants a cutting there is first heel, horizontal piece fixed mounting is in the inside of first heel, the bottom fixed mounting of horizontal piece has the cylinder, the cylindrical outer wall is provided with the screw thread. This can dismantle high -heeled shoes, the accessible setting realizes the dismantlement and the equipment of sole and first heel in the cooperation of the connection box of sole bottom and cutting, gos back first heel and second heel were realized to thread groove that the accessible setting seted up equipment and dismantlement at inside cylinder of first heel and second heel top.

Inventors

JIANG WANZHEN

CEN WENBAO

Latest standardized assignees - inventors removed

CIXI QIAOTOU SIYU INDUSTRY PRODUCT WORK DESIGN STUDIO

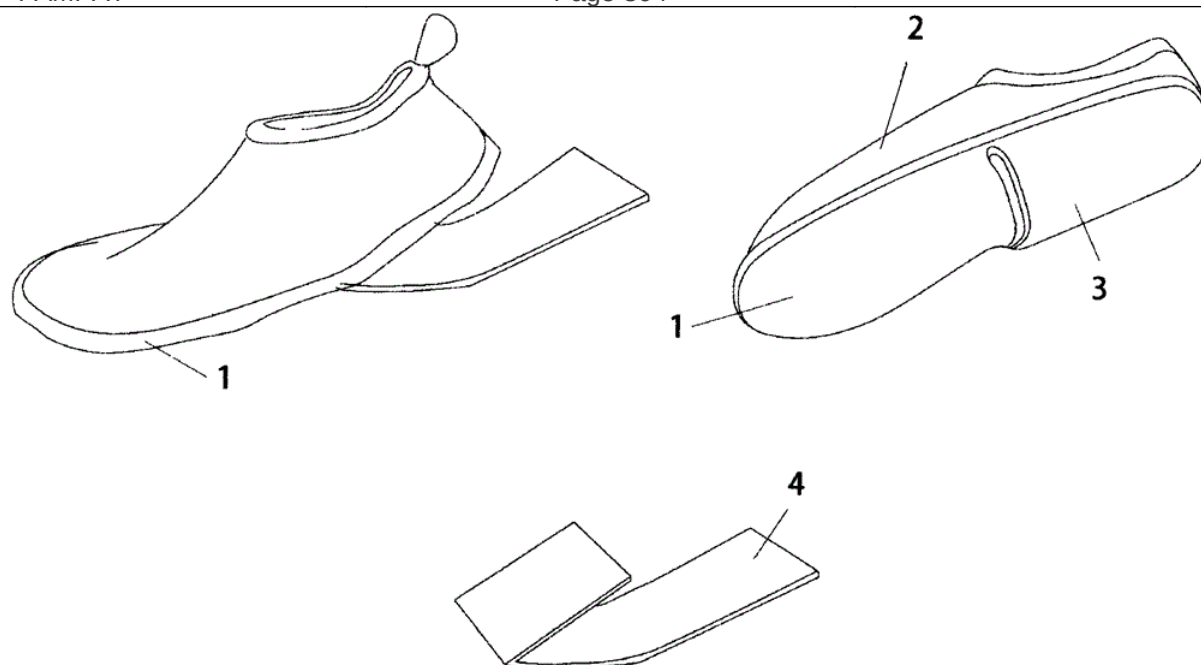
Family 268/432 - FAMPAT - ©Questel

Title

(CN106539191)

Detachable high-heeled shoe

Images

**Publication data including kind & date**[CN106539191](#)

A

2017-03-29

CN106539191

**Abstract**

(CN106539191)

The invention provides a detachable high-heeled shoe which structurally comprises a shoe upper, a shoe sole and a detachable high shoe heel, wherein the detachable high shoe heel is of a V-shaped structure; and an insertion hole is left in the detachable high shoe heel, thereby achieving random switchover between the forms of a high-heeled shoe and a flat shoe very conveniently. The detachable high-heeled shoe has the advantages that the harm of long-time wearing of a high-heeled shoe to foot can be further reduced, and more convenience can be provided for the shoe-wearing and shoe-removing occasions. The detachable high-heeled shoe is particularly suitable for being worn and used by women.

Inventors

ZHAO YUTAO

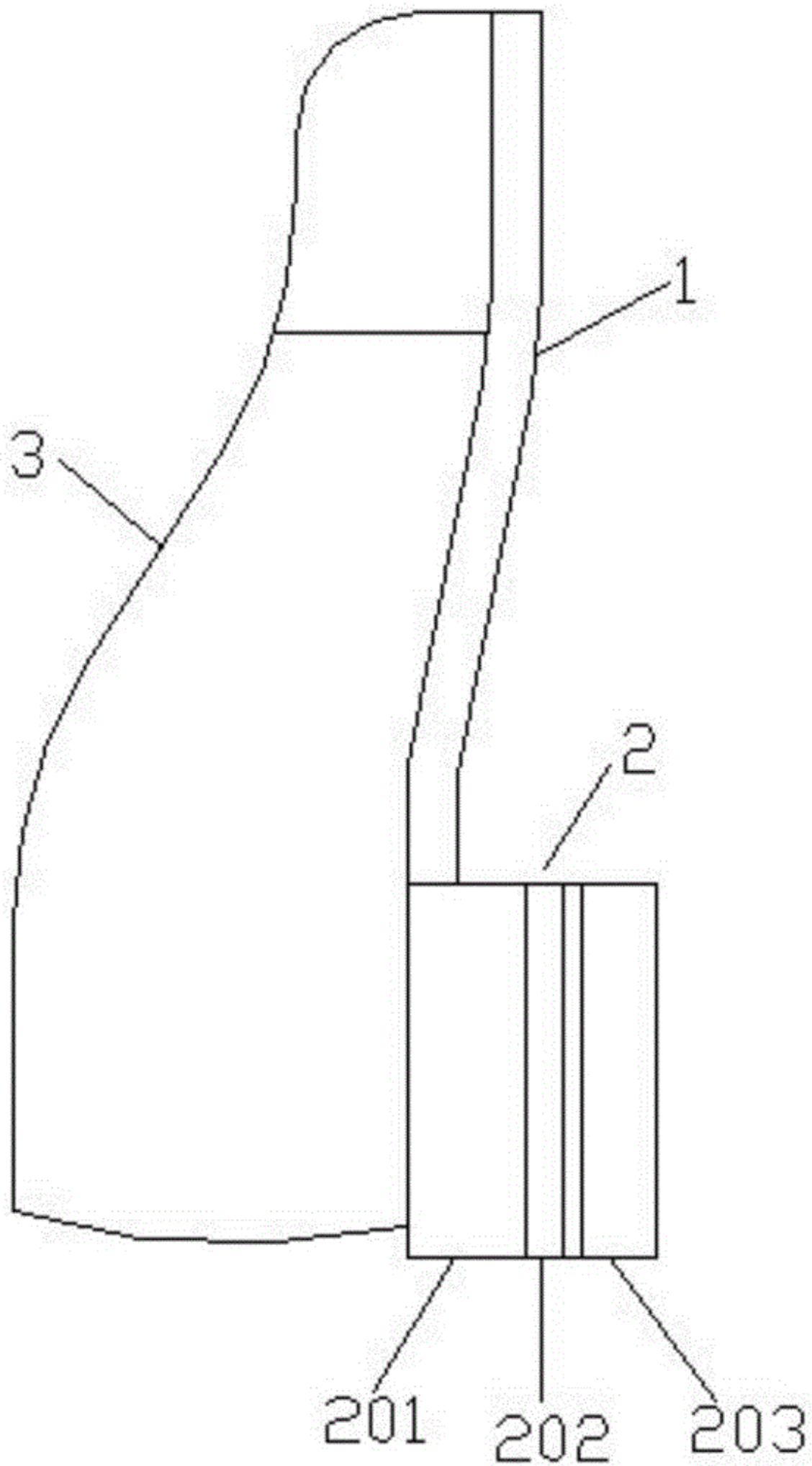
Family 269/432 - FAMPAT - ©Questel

Title

(CN205285227U)

Can trade shoes of heel

Images



Publication data including kind & date

CN205285227

U

2016-06-08

CN205285227U

**Abstract**

(CN205285227)

The utility model discloses a can trade shoes of heel, including sole, heel, upper of a shoe, sole, the upper of a shoe is established on a left side, and the heel is established to the right -hand member root, and the heel contains fixed heel and activity heel, if the fixed dry waist -shaped slot of heel goes up the plane and covers the elastic connection piece, if the dry round hole of elastic connection piece, the round hole upper end groove of setting up a checkpoint, the metal sheet is established to the activity heel, and the block rubber is established to the metal sheet right -hand member, connects the nail if the left end is implicated in, connects pin fin portion and establishes the ball, and the cylinder is established to the ball lower extreme, the utility model discloses an activity heel can be dismantled and changed for modular installation, the demand that can install oneself the not movable heel of co -altitude of arranging in pairs or groups, movable heel change after also wearing and tearing the bottom.

Inventors

JIN HAIBIN

XU YANGPING

Latest standardized assignees - inventors removed

SHANGHAI HENGYUN INDUSTRIAL DEVELOPMENT

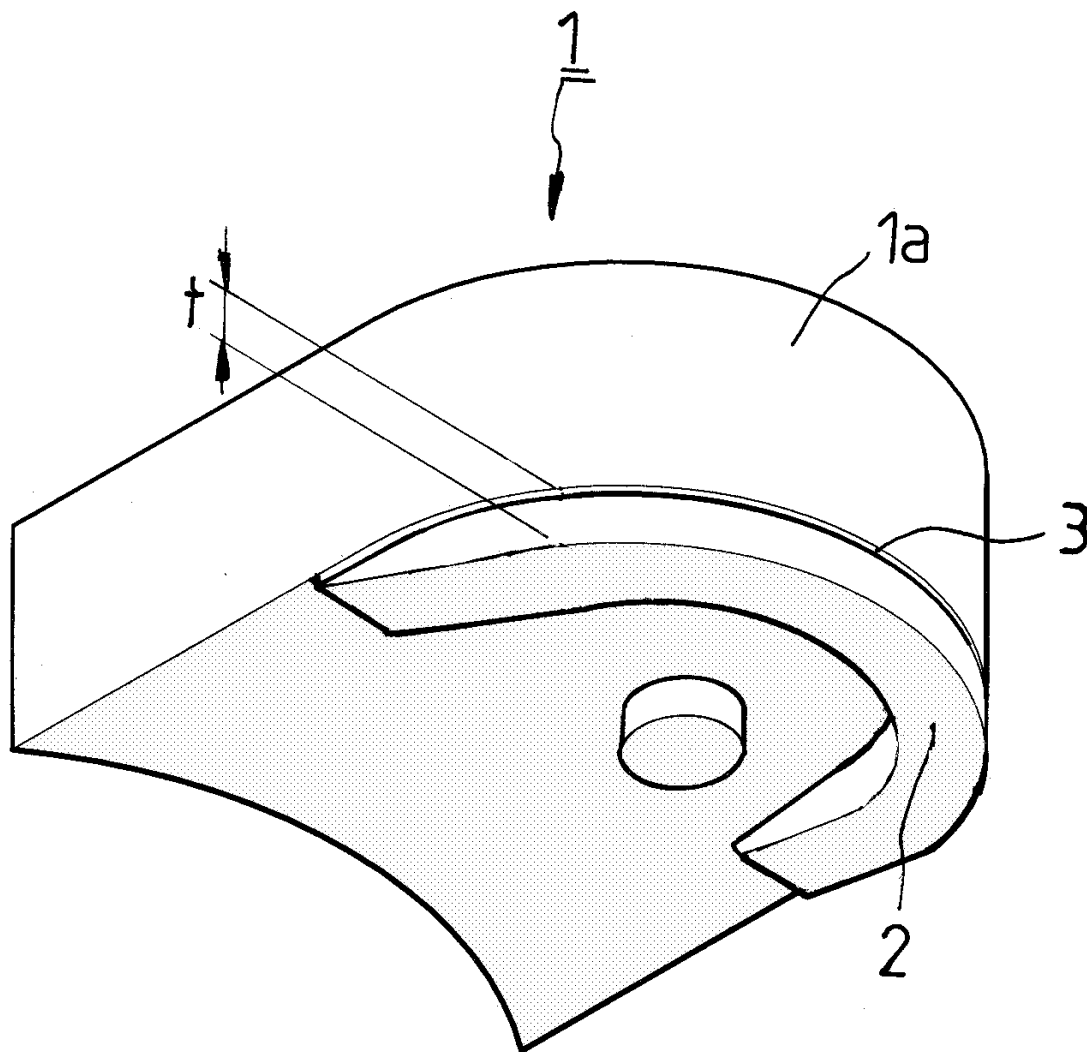
Family 270/432 - FAMPAT - ©Questel

Title

(KR200242110U)

Heel for shoes

Images

**Publication data including kind & date**[KR200242110](#)

Y1 2001-10-12

KR200242110U

**Abstract**

(KR200242110)

This invention relates to a heel for footwear (shoes) intensively by an improved, more specifically due to wear and extends the replacement time of the heel can be used as a heel for a shoe that intends to provide a composition of this invention.

That is, the present invention relates generally to the configuration of the heel (1) for a shoe as claimed in the invention, the heel body (1a) at the rear end (t) to a height of about 3 field 10mm integrally formed curved (2) and auxiliary, the heel body (1a) and the auxiliary divided auxiliary curved (2) boundary (3) curved (2) configuration along the boundary (3) line upon wear of the auxiliary curved (2) so that it can be cut conveniently repair can be made to the embodiment of the present invention.

Inventors

KIM, JAE-HO

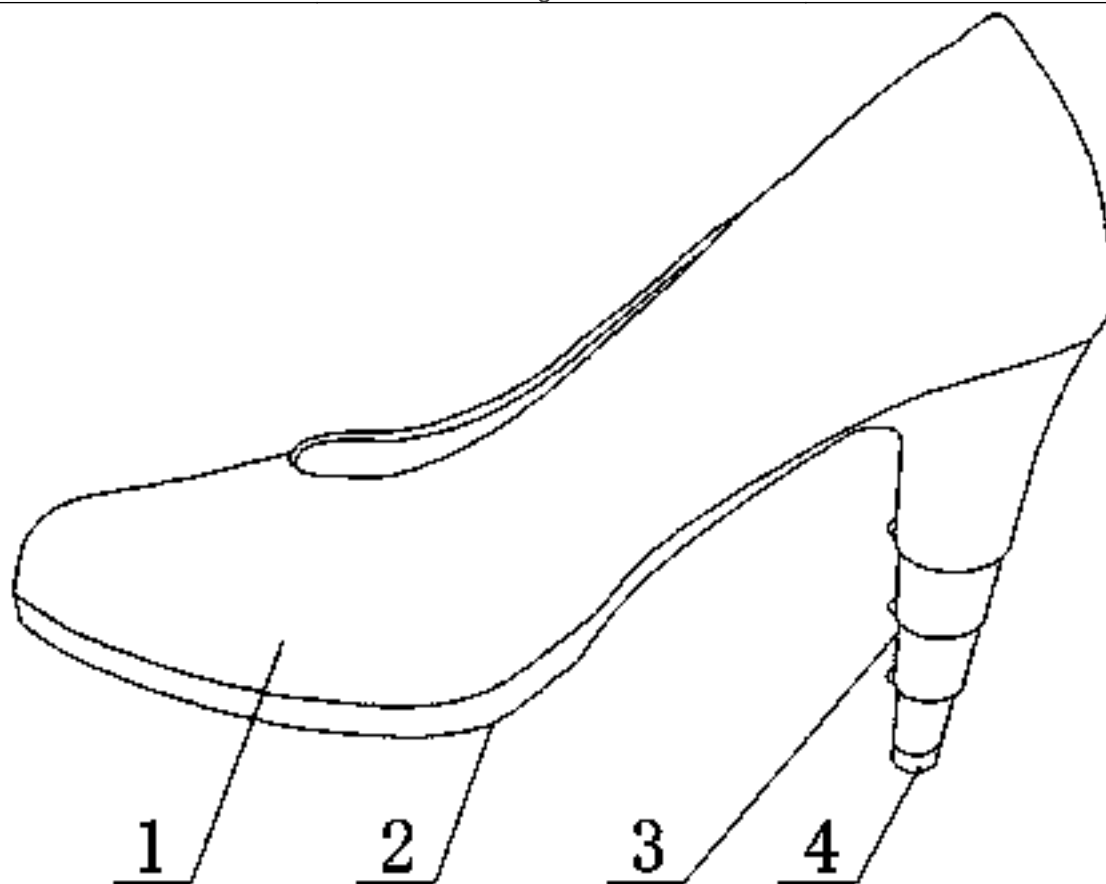
Family 271/432 - FAMPAT - ©Questel

Title

(CN204105019U)

Height-adjustable high-heeled shoe

Images

**Publication data including kind & date**[CN204105019](#)

U

2015-01-21

CN204105019U

**Abstract**

(CN204105019)

The utility model relates to a height-adjustable high-heeled shoe. The height-adjustable high-heeled shoe is composed of a vamp, a sole, a shoe heel and a spike. The sole and the shoe heel are arranged at the lower end of the vamp. The shoe heel is arranged at the rear end of the sole. The shoe heel is divided into four portions, wherein the upper end of the first portion is connected with the sole, a through hole is formed in the lower end of the first portion, through holes are formed in the upper end and the lower end of the second portion respectively, an elastic piece with a boss is arranged on the inner wall of the second portion, through holes are formed in the upper end and the lower end of the third portion respectively, an elastic piece with a boss is arranged on the inner wall of the third portion, a through hole is formed in the upper end of the fourth portion, an elastic piece with a boss is arranged on the inner wall of the fourth portion, and the spike is arranged at the lower end of the fourth portion. The height-adjustable high-heeled shoe can serve as a high-heeled shoe, and the height of the height-adjustable high-heeled shoe can be adjusted at will; the height-adjustable high-heeled shoe is simple in structure, convenient to use and high in practicability.

Inventors

LAN TIAN

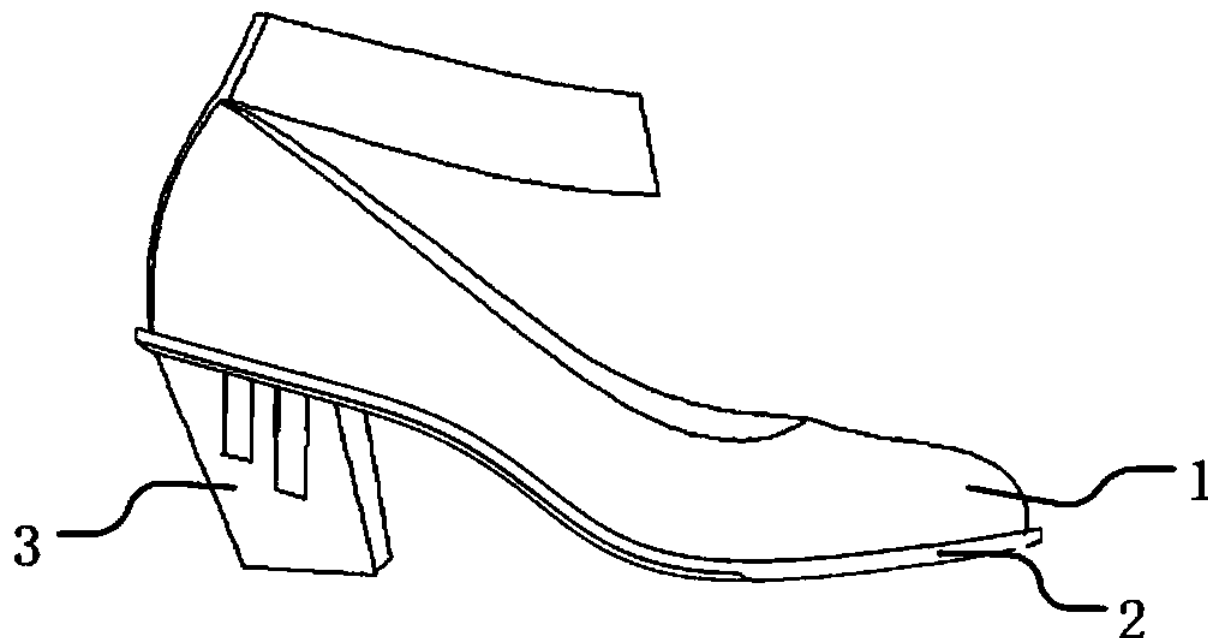
Family 272/432 - FAMPAT - ©Questel

Title

(CN204070749U)

Shoes with detachable shoe heels

Images

**Publication data including kind & date**[CN204070749](#)

U

2015-01-07

CN204070749U

**Abstract**

(CN204070749)

The utility model provides a pair of shoes with detachable shoe heels. Each shoe body comprises a vamp, a shoe midsole and a shoe heel, wherein each shoe midsole is connected with the corresponding vamp; each shoe heel is detachably connected with the corresponding shoe midsole; each convex connecting part which protrudes from the surface of the corresponding shoe midsole and is connected with the corresponding shoe heel is formed in the corresponding shoe midsole; each shoe heel is provided with a groove which is in interference fit with the corresponding convex connecting part; each convex connecting part is connected with the corresponding groove in an expanding manner, so that each shoe midsole is detachably connected with the corresponding shoe heel. The shoe heels can be detached and replaced and can be designed into different styles and different colors; the styles and the colors of the shoes can be changed by a consumer according to the own preferences through a detachable connecting manner between each shoe midsole and the corresponding shoe heel; the shoes can be matched by the consumer randomly according to personal preferences; therefore, the wearing experience of the consumer is met.

Inventors

YE ZHAOQING

Latest standardized assignees - inventors removed

DONGGUAN CHISHING MANUFACTURING

Family 273/432 - FAMPAT - ©Questel

Title

(CN204070744U)

Shoes with detachable shoe heels

Images

**Publication data including kind & date**[CN204070744](#)

U 2015-01-07 CN204070744U

**Abstract**

(CN204070744)

The utility model discloses a pair of shoes with detachable shoe heels. Each shoe comprises a shoe body, wherein the shoe body comprises a vamp, a shoe midsole and a shoe heel, wherein each shoe midsole is connected with the corresponding vamp; each shoe heel is detachably connected with the corresponding shoe midsole; a shoe heel gasket is arranged on the connecting part between each shoe midsole and the corresponding shoe heel; the cambered surface of each shoe midsole of the corresponding shoe heel gasket and the bottom arc of each shoe midsole have the same curvature degree; the bonding surface of each shoe heel can be matched with and bonded to the corresponding shoe heel, so that each shoe midsole, the corresponding shoe heel gasket and the corresponding shoe heel can be bonded together completely without a gap. The disadvantage that the radian of the bottom arc of each shoe cannot be completely bonded to that of the bonding surface of the corresponding shoe heel when the bottom arc of the corresponding shoe, namely the radian of the corresponding shoe heel, is connected with the shoe heel because the unchanged performance and precision of the bottom arcs of each pair of shoes cannot be realized due to the limitation of the traditional shoe making process is overcome. The stability of each shoe body is guaranteed; the shoe wearing safety is brought to a shoe wearer; the original comfort of each shoe body is kept.

Inventors

YE ZHAOQING

Latest standardized assignees - inventors removed

DONGGUAN CHISHING MANUFACTURING

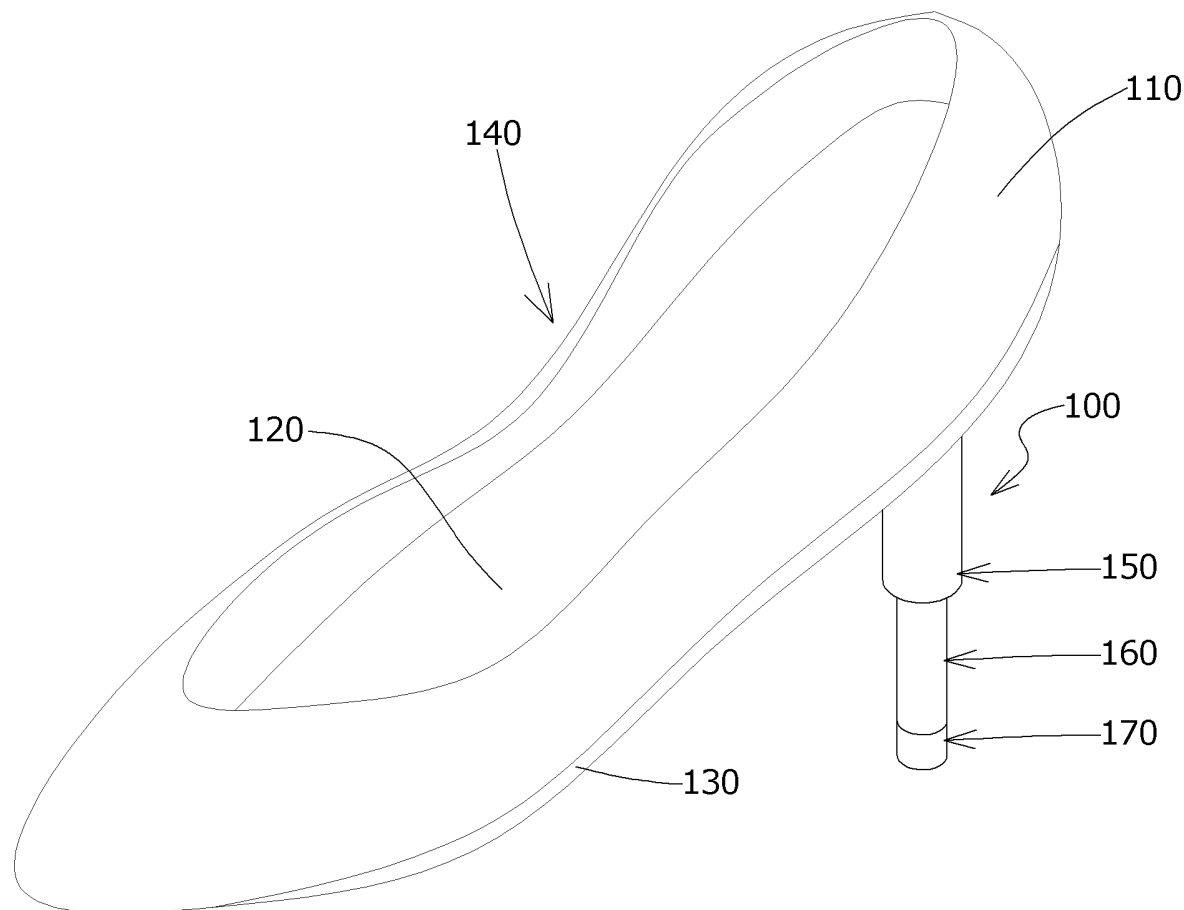
Family 274/432 - FAMPAT - ©Questel

Title

(KR101382249)

A high heel

Images

**Publication data including kind & date**[KR101382249](#)

B1 2014-04-07 KR101382249

**Abstract**

(KR101382249)

The present invention relates to a heel with a buffer member installed at heels of shoes, especially shoes with high heels for women, to relieve a shock applied to feet during walking, and more specifically, to the easily detachable heel for relieving a shock detachably installing the heel with the buffer member at heels of shoes to enable a user to comfortably replace or repair the heel when the heel is worn down or damaged or according to the preference of the user, to significantly improve an applying convenience and a durability of the shoes.

Inventors

GO, JONG-TAEK

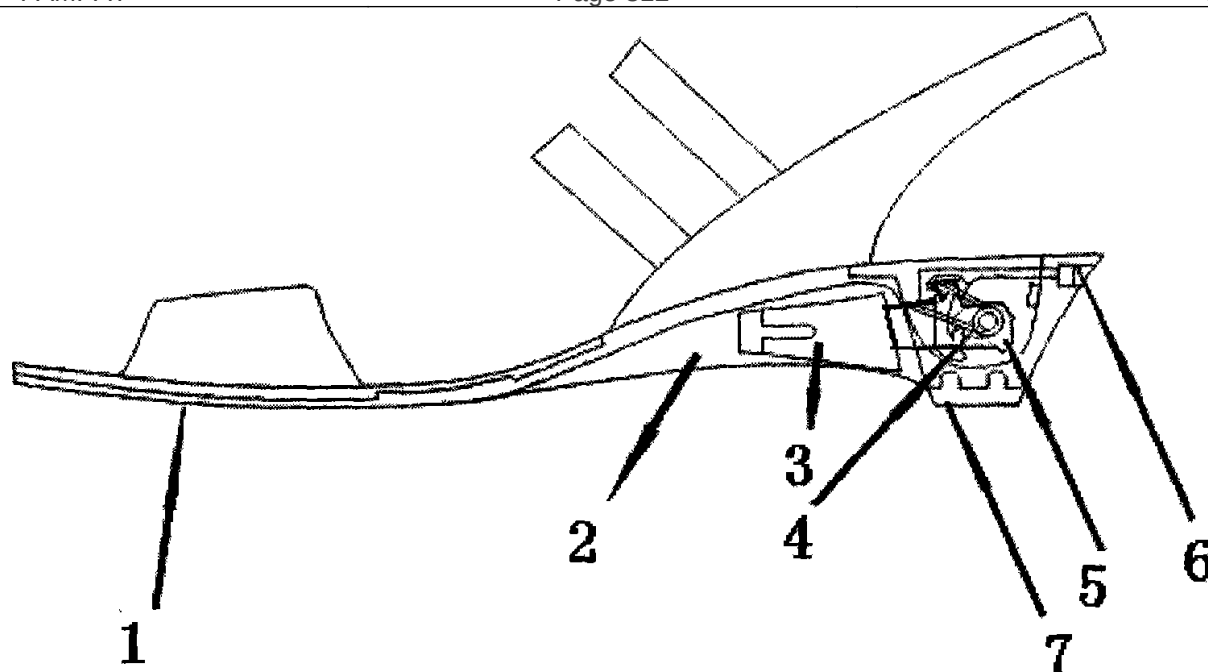
Family 275/432 - FAMPAT - ©Questel

Title

(CN102641013)

Heel-height-adjustable fold-up shoe

Images

**Publication data including kind & date**

CN102641013

A

2012-08-22

CN102641013

**Abstract**

(CN102641013)

The invention discloses a pair of heel-height-adjustable fold-up shoes, relates to an improvement structure of shoes, and in particular relates to an improvement structure of shoe heels. Each shoe comprises a sole and a wedge installed under the sole and also comprises an elastic steel sheet, a detachable baffle, a retractable heel, a rotational spring, a metal supporting block and a retractable switch, wherein the elastic steel sheet is arranged under the half sole of the sole; the wedge is hollow inside; communicated openings are arranged at the bottom parts and front side of the wedge; the detachable baffle is installed in front of the wedge; the retractable heel is arranged under the wedge; the metal supporting block is fixed at the upper end of the retractable heel; the metal supporting block and the rotational spring are installed inside the wedge by virtue of a same shaft arranged horizontally; the retractable switch is arranged above the metal supporting block; the rear end of the retractable switch is arranged in a through hole on the rear side of the wedge; and one end of the rotational spring and the retractable heel are fixed and the other end of the rotational spring is put on a hook of the retractable switch. By adopting the pair of fold-up shoes, the problems that one pair of existing fold-up shoes which can change the shoe heel heights are not beautiful, are inconvenient to fold up and are uncomfortable to wear are solved.

Inventors

XU XIANG

LIN JIANJIANG

Latest standardized assignees - inventors removed

FOSHAN SATURDAY SHOES

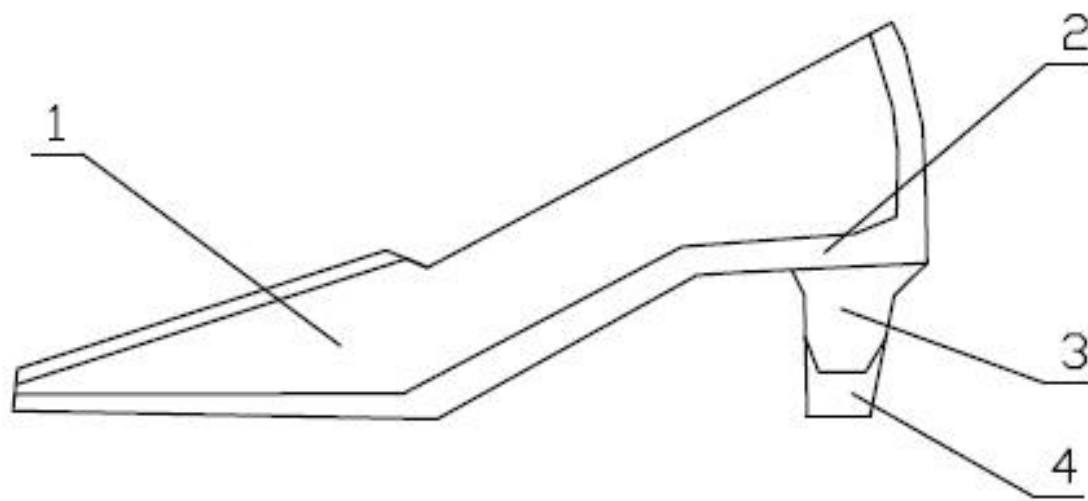
Family 276/432 - FAMPAT - ©Questel

Title

(CN201822024U)

Dual-purpose shoes for women

Images

**Publication data including kind & date**[CN201822024](#)

U

2011-05-11

CN201822024U

**Abstract**

(CN201822024)

The utility model relates to shoes for women, and discloses dual-purpose shoes for women. The shoe comprises a shoe body (1); and a detachable heel is arranged below an upper (2) of the shoe body (1) and comprises multi-sections of heel bodies. The dual-purpose shoes are simple in structure and economical and practical, and can be used not only as high-heel shoes, but also as flat shoes after the heel is detached at ordinary times so as to bring great convenience for women when going outside.

Inventors

GAN HONGFEI

Latest standardized assignees - inventors removed

HANGZHOU YUHANG DISTRICT TANGXI VOCATIONAL SCHOOL

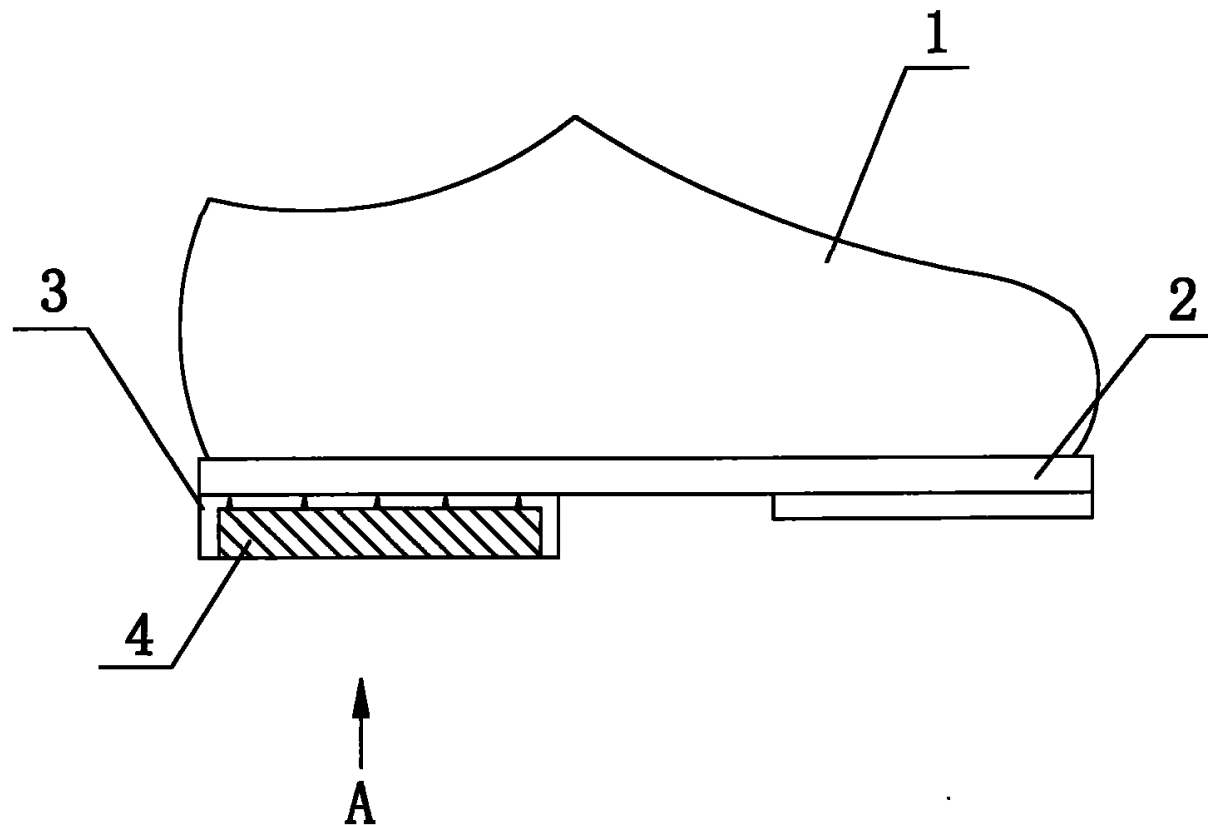
Family 277/432 - FAMPAT - ©Questel

Title

(CN201675146U)

Shoe with replaceable wear-resistant layer

Images

**Publication data including kind & date**[CN201675146](#)

U

2010-12-22

CN201675146U

**Abstract**

(CN201675146)

The utility model discloses a shoe with a replaceable wear-resistant layer, and belongs to shoes of light industrial shoes or daily articles. The shoe comprises a shoe upper (1), a sole (2) and a heel (3), wherein the shoe upper (1) is fixed above the sole (2), the heel is fixed below the sole (2), an downward cavity and conical holes capable of mounting various replaceable wear-resistant layers are arranged on the bottom face of the heel (3), and cones matched with the conical holes on the bottom face of the hollowed heel (3) are arranged on a replaceable wear-resistant layer. After the various detachable wear-resistant layers mounted and assembled on the sole or the heel are certainly worn, a user can switch the worn parts of the layers or make simple detachment and replacement so that the heel can recover flatness and beauty without affecting wearing, and thereby the shoe is simple in structure, is adaptable to industrial production and is easy to popularize.

Inventors

ZHANG LIANGCHEN

Family 278/432 - FAMPAT - ©Questel

Title

(CN201451620U)

Detachable high-heel injection shoe

Images

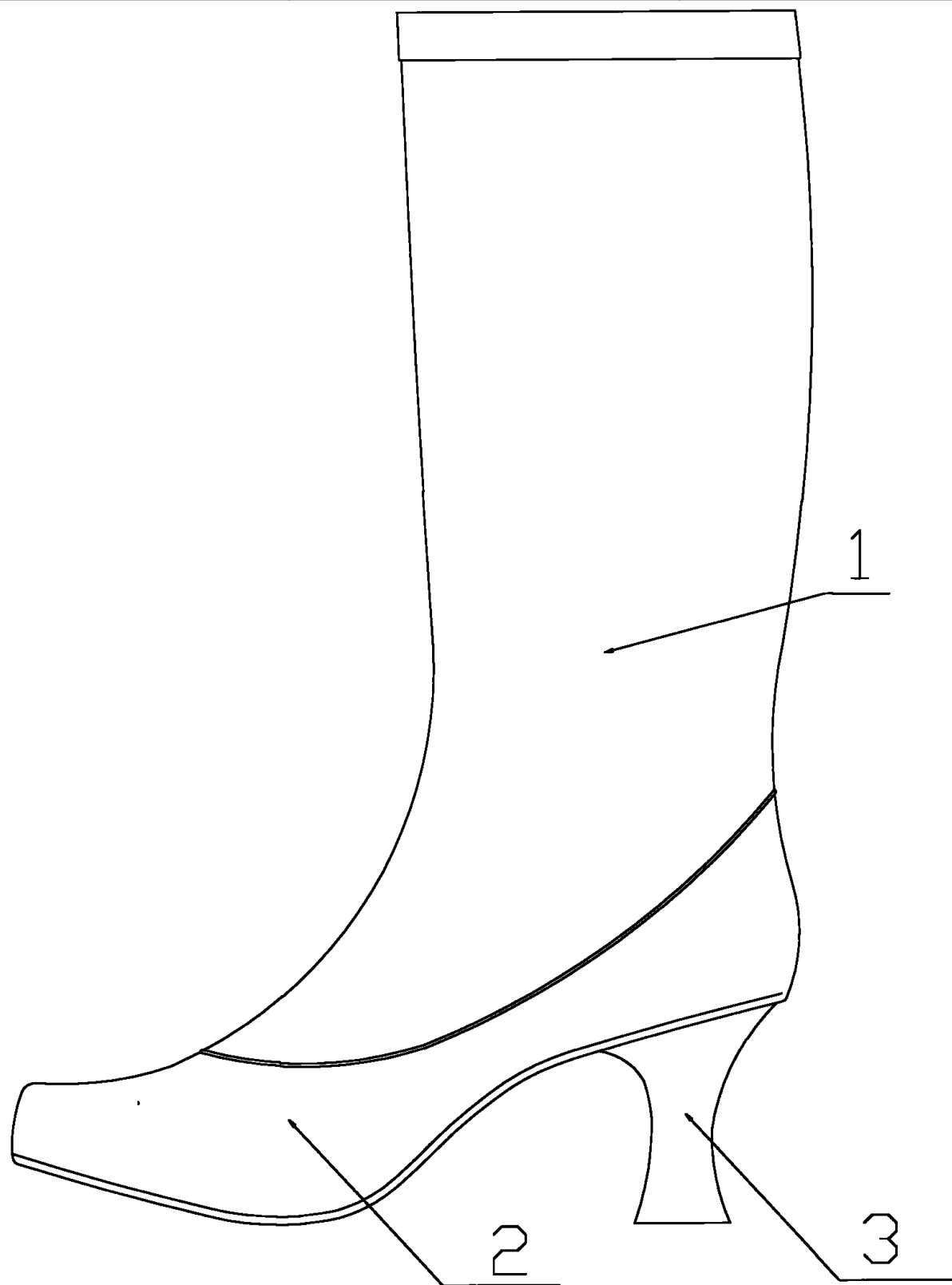


图 1

Publication data including kind & date[CN201451620](#)

U

2010-05-12

CN201451620U

**Abstract**

(CN201451620)

The utility model discloses a detachable high-heel injection shoe, which comprises an injected shoe body, a sole and a heel, wherein the heel is fixed on the sole through a plurality of nails. With the structure, the utility model is not only beautiful, but also is anti-skidding and is suitable to be used in different severe occasions. A user can detach the heel once feel

inconvenient.

Inventors

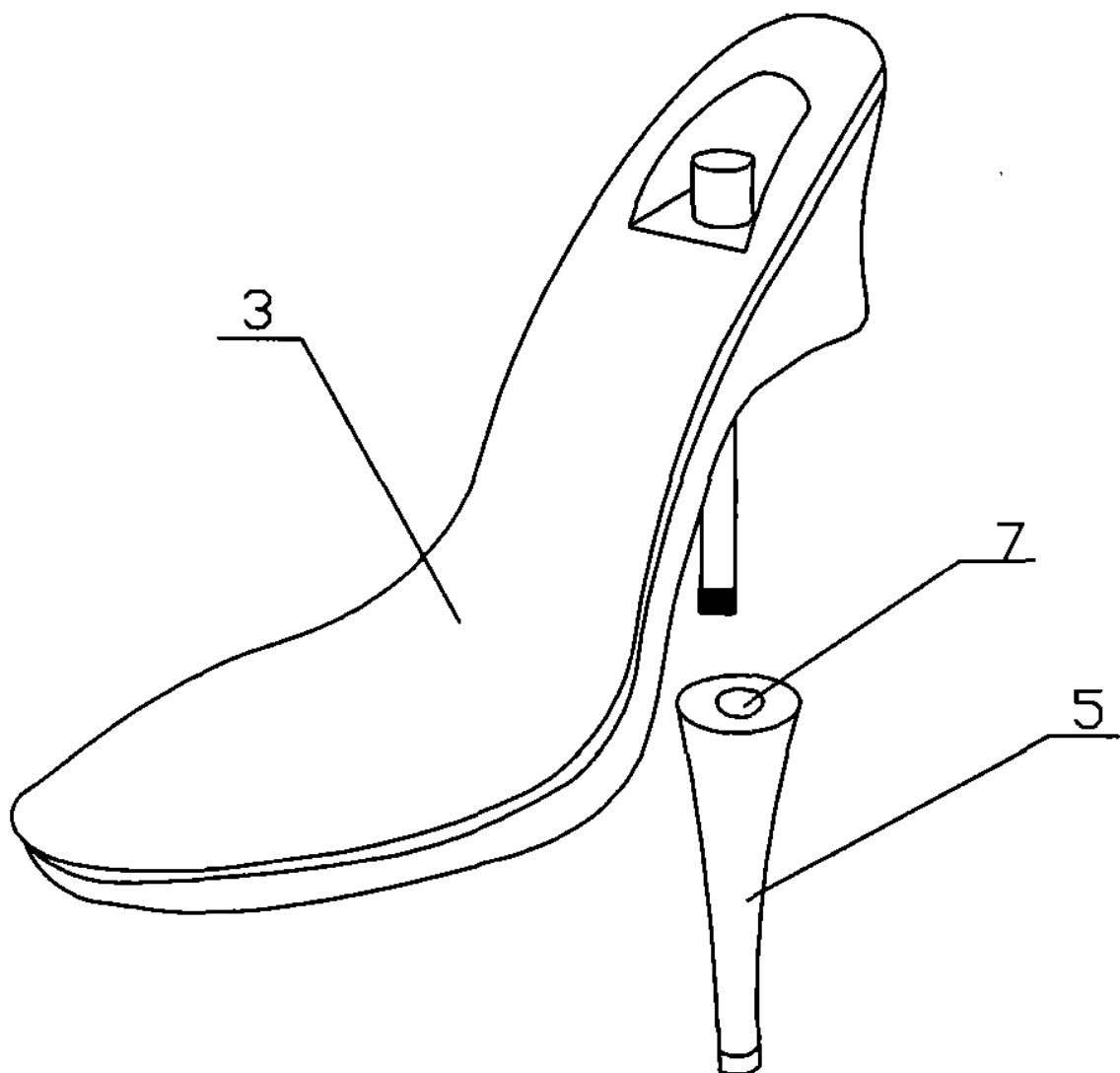
WANG SHENGMING

Family 279/432 - FAMPAT - ©Questel

Title

(CN201036352U)

High heeled shoe capable of dismounting heels

Images**Publication data including kind & date**

[CN201036352](#)

Y

2008-03-19

CN201036352U

**Abstract**

(CN201036352)

The utility model discloses a pair of high-heeled shoes that the heel is capable of being disassembled; and a shoe comprises a sole and an upper, wherein the sole comprises a flat sole, a top layer of the sole, and a heel, the flat sole comprises a lower front part and a raised back part, and gradually increases from the raised front part to the back part; the back part is arranged at the heel and takes a hollow structure, a heel is arranged below the hollow part; a connecting nail passes through the hollow part and makes the sole and the heel connected; the top layer of the sole is covered on the flat sole, and shades the top layer of the hollow part. The utility model adopts that the heel part of the flat sole is designed to be in a hollow structure, a heel is arranged below the hollow part, and through the connecting nail, the connection of the sole and the heel are is knocked down, thereby during the manufacture, the manufacturer is capable of respectively making the sole and the heel, making the production and the transport convenient; and because the heel is capable of being

disassembled, so when in use, if the heel is damaged, the customer is capable of replacing momentarily, saving cost.

Inventors

DONG WEIMIN

Latest standardized assignees - inventors removed

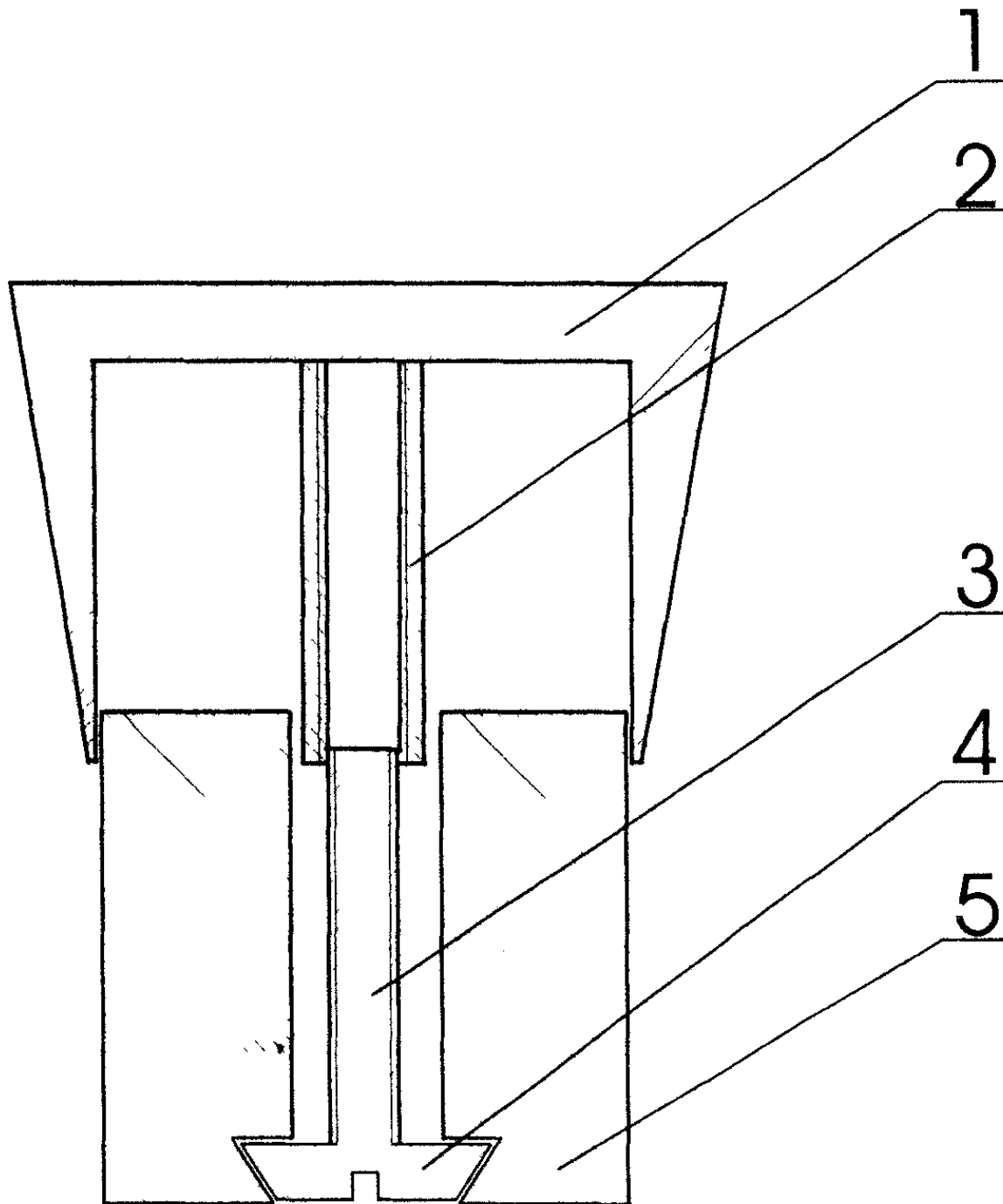
XINBAILI SHOES MAKING

Family 280/432 - FAMPAT - ©Questel

Title

(CN201029491U)

High-heeled shoes with adjustable heel

Images**Publication data including kind & date**

[CN201029491](#)

Y

2008-03-05

CN201029491U

**Abstract**

(CN201029491)

The utility model relates to a heel of high-heeled shoes, while prior high-heeled shoes have fixed heel height, with limited application on different conditions and roads. The utility model provides a heel for adjusting the height of high-heeled shoes, to apply different conditions and roads. The utility model is characterized in that the heel with adjustable high-heeled shoes height is composed of an upper heel and a lower heel, wherein the center of the upper heel is provided with a nut fixed on sole, the center of the lower heel is provided with a movable screw rod engaged with the nut, the screw rod cap is a trapezium round boss, with small lower and large upper, embedded into the bottom of the lower heel, and the upper heel is provided with a chamber for moving the lower heel up and down in the upper heel when the screw rod rotates. Via rotating the screw rod cap via simple screwdriver, the height of heel of high-heeled shoes can be adjusted.

Inventors

ZHANG HANG

Latest standardized assignees - inventors removed

CHENGDU WENJIANG SPARK PATENT DEVELOPMENT INSTITUTE

Family 281/432 - FAMPAT - ©Questel

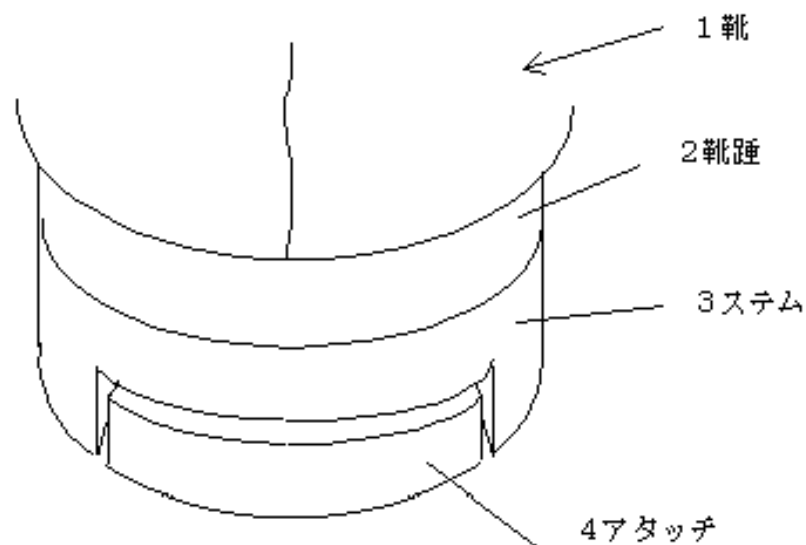
Title

(JP2003310305)

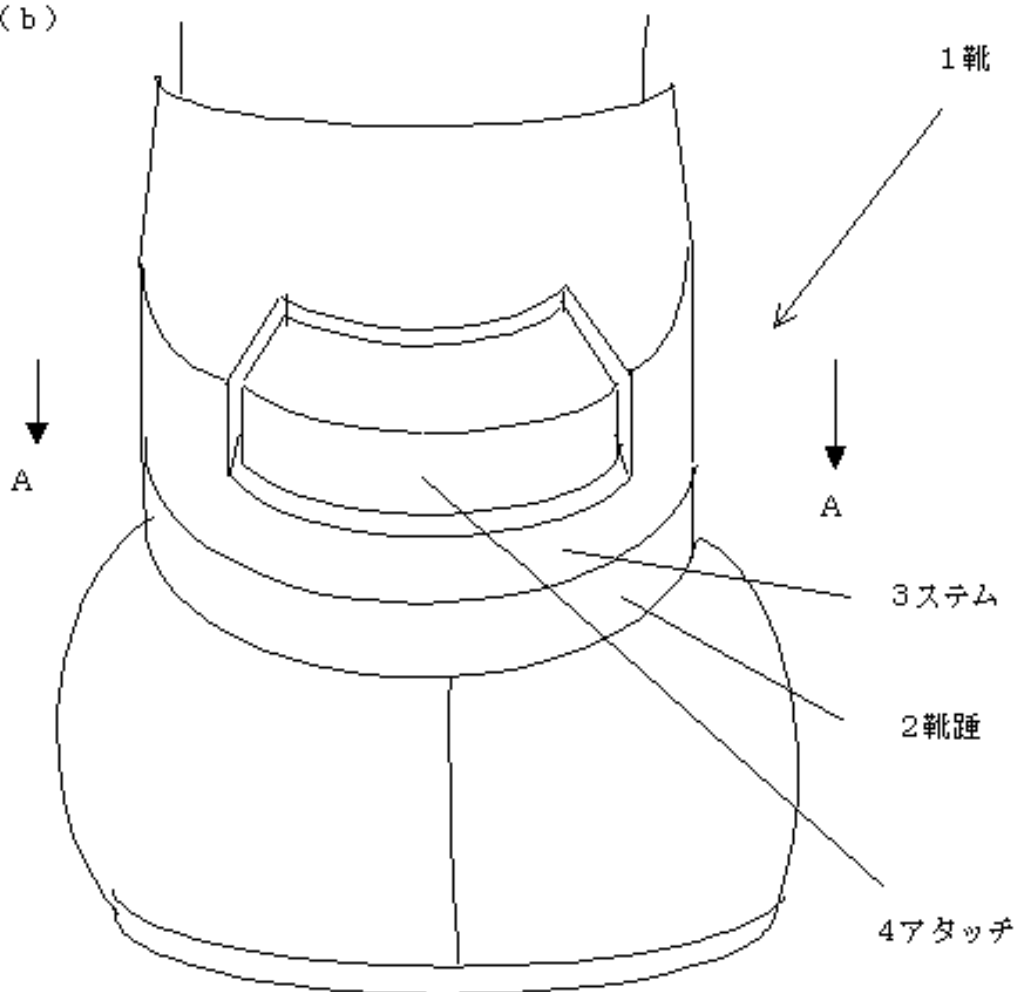
Repair member for heel and horseshoes

Images

(a)



(b)

**Publication data including kind & date**

JP2003310305

A

2003-11-05

JP2003310305

**Abstract**

(JP2003310305)

PROBLEM TO BE SOLVED: To easily repair a heel and a horseshoe, and impart an antislip and a cushion property to walking.

SOLUTION: Fixing part is fixed to the heel or horseshoe by a fixing means, the fixing part is provided with a removable replacing part, and the replacing part has the antislip and cushion property by using an elastic material such as rubber, so that the heel and horseshoe can easily be replaced when abraded, and the walking can be easily performed by increasing friction and the cushion property.

COPYRIGHT: (C)2004,JPO

Inventors

HIN KEISHUKU

Family 282/432 - FAMPAT - ©Questel

Title

(JP3024549U)

Removable shoe heel part

Publication data including kind & date

[JP3024549](#) U 1996-05-21 JP3024549U

**Abstract**

(JP3024549)

[Abstract] [object] is devised to solve the object, but convenient in easily slipper, such as running on a foot force such movement is difficult. Easy wearing the shoe is also easily vacillating, in an area that is not tight surface. Therefore the heel can be removably, better advantage of these two items are to be drawn and more comfortable. PURPOSE: The present product, the bottom of the rubber body 1 and the heel portion of the plastic damping 2 and 3 comprises, by the coil spring and a ball out 11 and 12 in which the buried portion of the detachable calcaneus calcaneus 3 by inserting 3 lower portion of the bore hole 9 and 10 ball bearings respectively 11 and 12 fixed engagement. A lacing is also removable calcaneus 3 to the bore hole 7 and 8 body through the upper part of the fitting 5 and 6 by cross connecting and 3 upper part of the foot and can be strongly fixed to simultaneously formed. Whituout 3 the upper part is attached to the pocket 4 is adapted to be housed.

Inventors

Akiyo Haruta

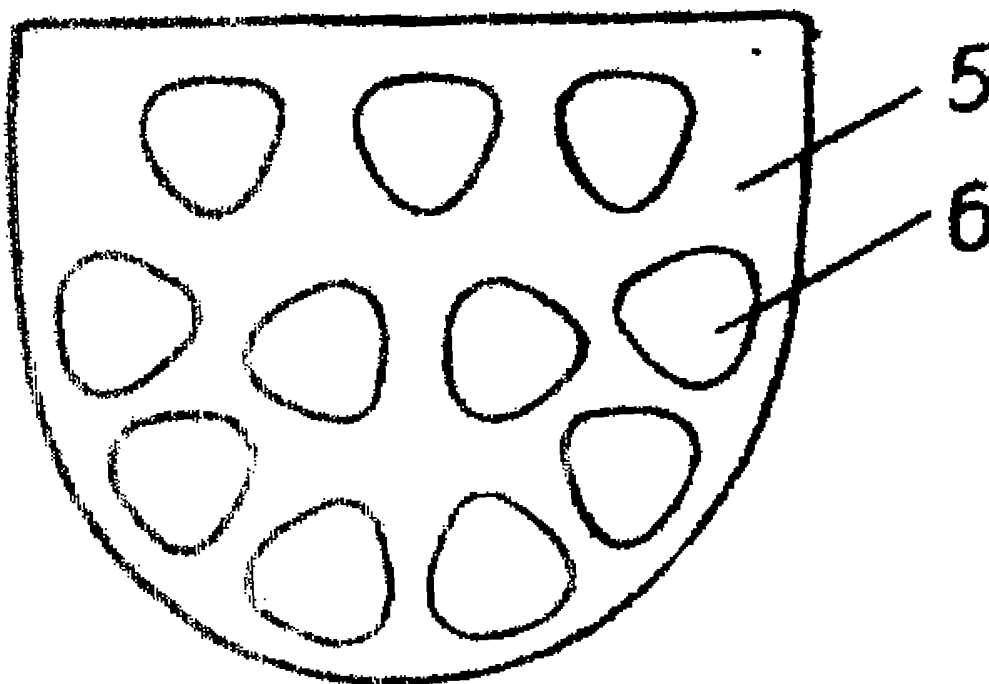
Family 283/432 - FAMPAT - ©Questel

Title

(CN2081224U)

Shoes heel

Images

**Publication data including kind & date**

CN90215389	Y	1992-04-01	CN90215389U
CN2081224	U	1991-07-24	CN2081224U

**Abstract**

(CN2081224)

The utility model discloses a shoe heel. The easily abraded section and other section of the shoe heel (5) are provided with concave holes. The concave holes are provided with fillers (6). The heel (5) with concave holes is bound with the fillers (6) by a detachable type and the fillers (6) can be interchanged. The easily abraded section of the shoe heel is provided with replaceable fillers (6) so as to reduce the nonuniform abrasion of the shoe heel. As a result, the beautiful appearance of the shoe heel is protected and the service life of the shoes is prolonged.

Inventors

ZHAO PEIDE

Family 284/432 - FAMPAT - ©Questel

Title

(KR19900009010U)

Heel

Publication data including kind & date

KR900009010	Y1	1990-09-29	KR19900009010U
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**Abstract**

(KR900009010)

No contents.

Inventors

PARK, HEE-DEUK

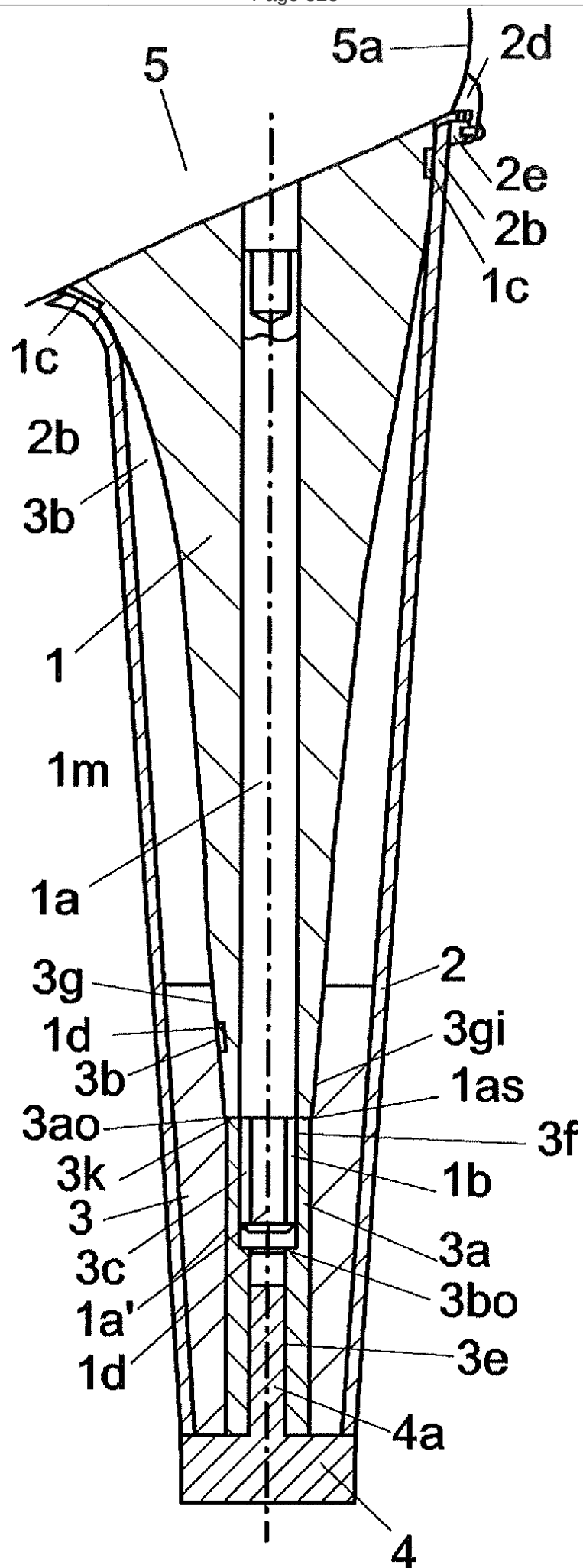
Family 285/432 - FAMPAT - ©Questel

Title

(DE202014011128)

Interchangeable heel

Images



Publication data including kind & date

DE202014011128

U1 2018-02-22

DE202014011128

**Abstract**

(DE202014011128)

Interchangeable heel (2, 3, 4), wherein a shoe, which comprises a shoe body (5, 5a) has, on which a heel portion (1) formed or attached, and the heel portion (1) of a metallic rod (1a) comprises, extending over at least half, in particular two thirds, the length of the shoe heel (1, 2, 3, 4) thereof and the heel portion (1) secured, in particular in the heel portion (1) cast or glued, is, the rod (1a) with its free end (1a') of the heel portion (1) projects, characteristic in, that the interchangeable heel (2, 3, 4) a first part (3), which has a top recess (3g) is provided, in which the rod (1a) with its free end (1a') and/or the heel portion (1) engages, and the recess (3g) on its inner wall (3gi) a support, in the form of a collar (3k) or a bottom wall (3bo), which are, on which the rod (1a) or support surface (1as) of the paragraph part (1) in the axial direction of the rod (1a) is supported, and the lower end of the first portion (3) of the heel piece (4) is formed, wall (2) covering part (3) of a first controlling and surrounds and is connected thereto, wherein the wall (2) of the heel piece (4) up to the shoe body (5, 5a) conduit.

Latest standardized assignees - inventors removed

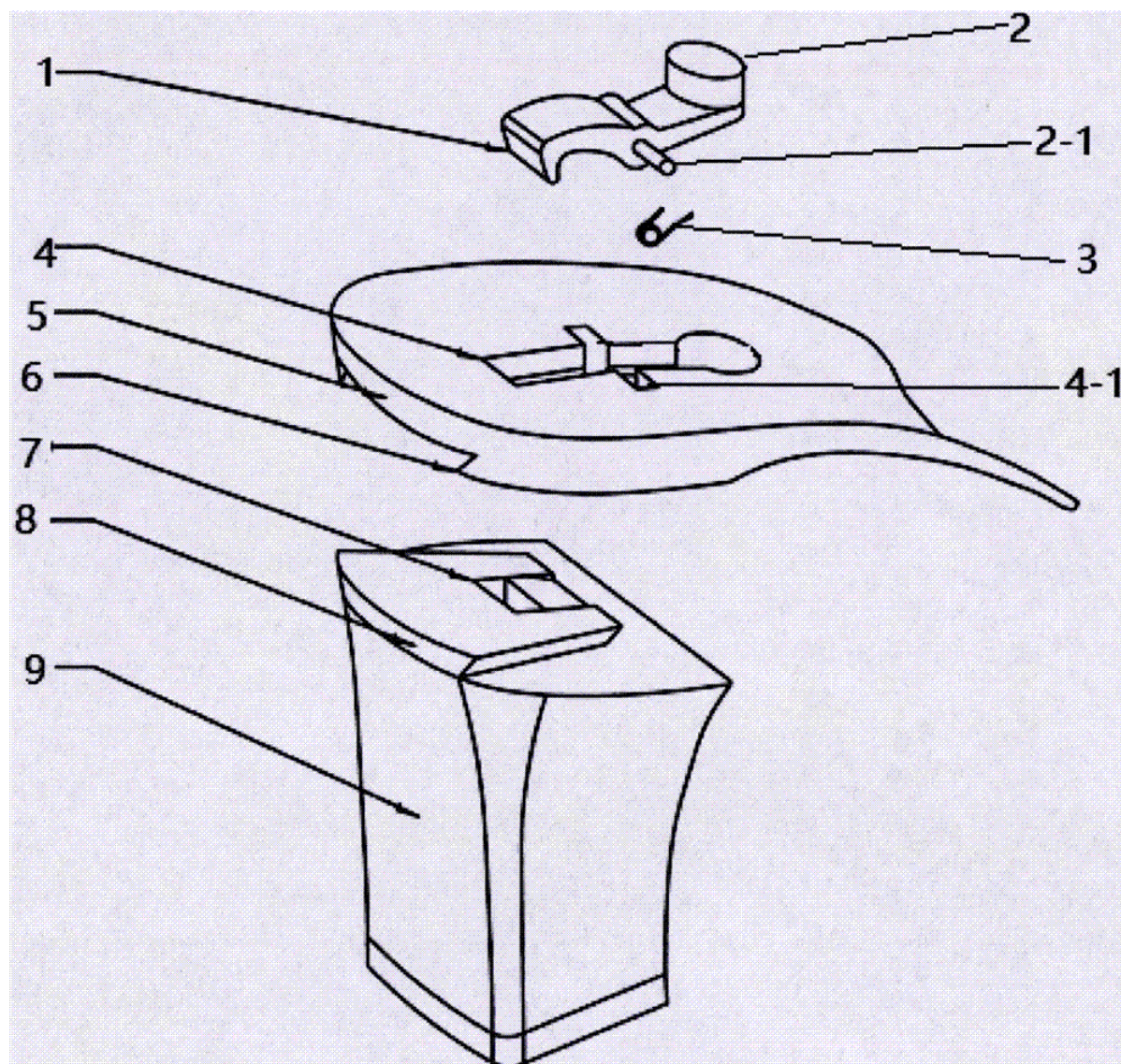
LEIBER KATHRIN

Family 286/432 - FAMPAT - ©Questel

Title

(CN206380782U)

High -heeled shoes with push button unloads follows

Images

Publication data including kind & date

CN206380782

U 2017-08-08

CN206380782U

**Abstract**

(CN206380782)

The utility model relates to a high -heeled shoes with push button unloads follows, follow and the heel including the fork, still fix with the hook including fixing the preceding of heel, fixed with hook integrated into one piece can dismantle heel after unload with button with preceding fixed still including with the hook, the fork is caught up with and is provided with the hook with the groove, precedingly fixedly is provided with a fork with draw -in groove with inslot, fork with the bottom with hook installation on -hook, heel top fixed mounting has a heel draw -in groove, the heel draw -in groove install the fork with the bottom fork with in the draw -in groove, be provided with the fork on the heel draw -in groove with the fixed slot, the fork runs through in the heel draw -in groove arranges the heel in with the fixed slot, preceding fixed passing with the hook is pitched with the buckle to the fork with in the fixed slot. The utility model discloses well high -heeled shoes with push button unloads follows unloads after pressing with the button, owing to unload the effect with the axle of pressing the button, it is preceding fixed with the hook upward movement, make its and hook with the groove separation to the function of following is unloaded in the realization.

Inventors

XIAO SHUNCAI

XIAO SHUNHONG

HUANG XIAOYU

YUAN XIAOYUN

PENG ZHIGUO

WANG FAGANG

Latest standardized assignees - inventors removed

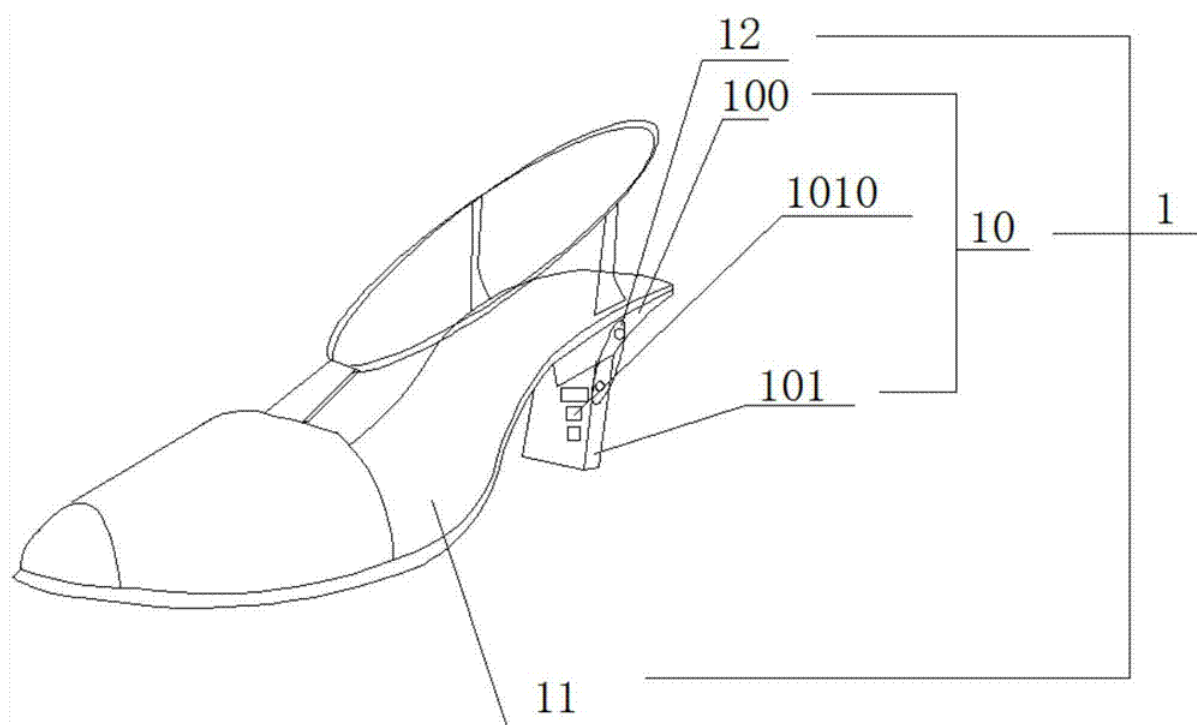
YONGJIA COUNTY GUJINHUI FOOTWEAR INDUSTRY

Family 287/432 - FAMPAT - ©Questel

Title

(CN206324327U)

Heel and shoes

Images**Publication data including kind & date**

CN206324327

U 2017-07-14 CN206324327U

Abstract

(CN206324327)

The utility model provides a heel and shoes relates to the characteristic technical field of shoes. The heel is including fixed heel and activity heel, fixed heel is installed on the sole, the activity heel with the sole or fixed heel swing joint, just the activity heel with sole or fixed heel can relative movement to make under the first state the lower extreme of activity heel is located fix the below of heel and contact with ground, under the second state, the lower extreme of activity heel is higher than fix the lower extreme of heel and make fixed heel and ground contact. The utility model discloses in still provide shoes, including foretell heel. Can relative movement for fixed heel through setting up movable heel, the heeled height of having alleviated current high -heeled shoes is higher, and the long -time meeting of wearing causes certain injury to the foot, makes a round trip to change to bring unnecessary troublesome if often carry flat shoe, gives people the technical problem that the life was plagued.

Inventors

LIU XING

Latest standardized assignees - inventors removed

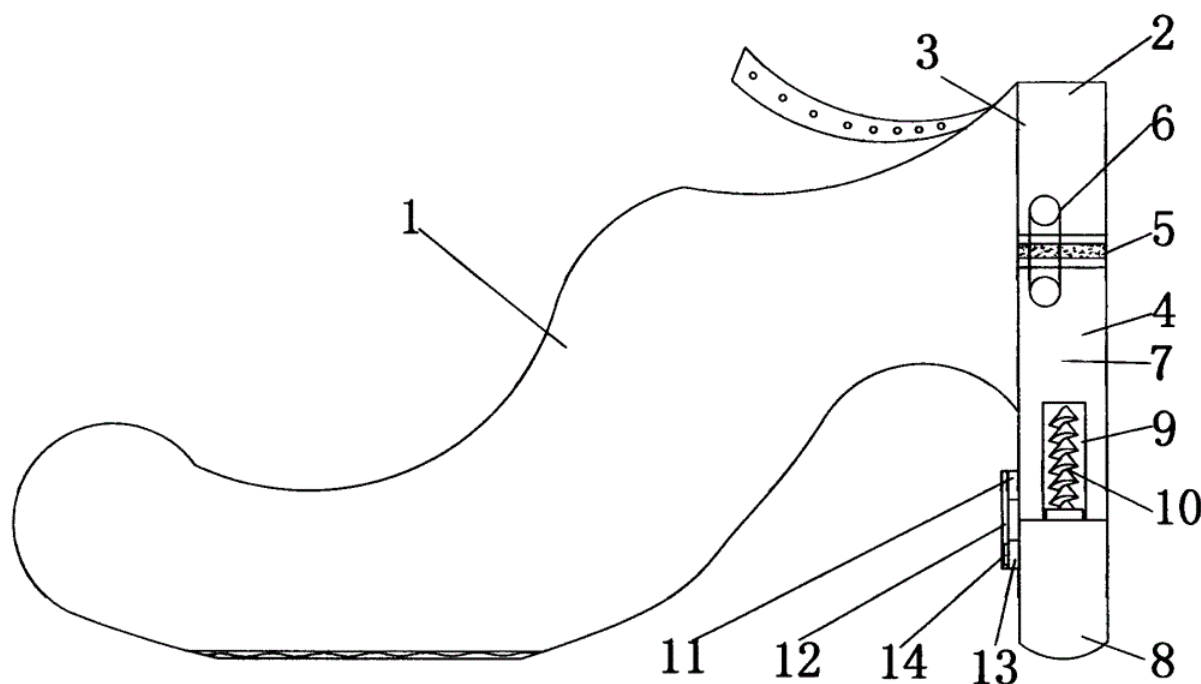
GUANGDONG POLYTECHNIC NORMAL UNIVERSITY

Family 288/432 - FAMPAT - ©Questel

Title

(CN205728389U)

High -heeled shoes of removable heel

Images**Publication data including kind & date**

CN205728389

U 2016-11-30 CN205728389U

**Abstract**

(CN205728389)

The utility model discloses a high -heeled shoes of removable heel, which comprises a housin, one side of casing is provided with the heel, heel from the top down divide into the stiff end in proper order and changes the end, the bottom of stiff end is provided with the lug, and the surface of stiff end is provided with the connector link, and the top of changing the end is provided with the sliding chamber with lug looks adaptation, it divide into first spliced pole and second spliced pole in proper order to change end from the top down, threaded cavity has been seted up to the inside of first spliced pole. This high -heeled shoes of removable heel has made things convenient for the change of heel, has made things convenient for

the heel to change later fixed through connector link and bayonet socket, makes people can not only alleviate the local fatigue of foot according to the correct reasonable high -heeled shoes of wearing of the needs of self in a day, makes both feet relax and to have a rest, has guaranteed people's rest quality and work efficiency, has avoided carrying the shoes that the pair was changed, has practiced thrift the space, and work and the life given people have brought the convenience.

Inventors

YU JIANQUN

Latest standardized assignees - inventors removed

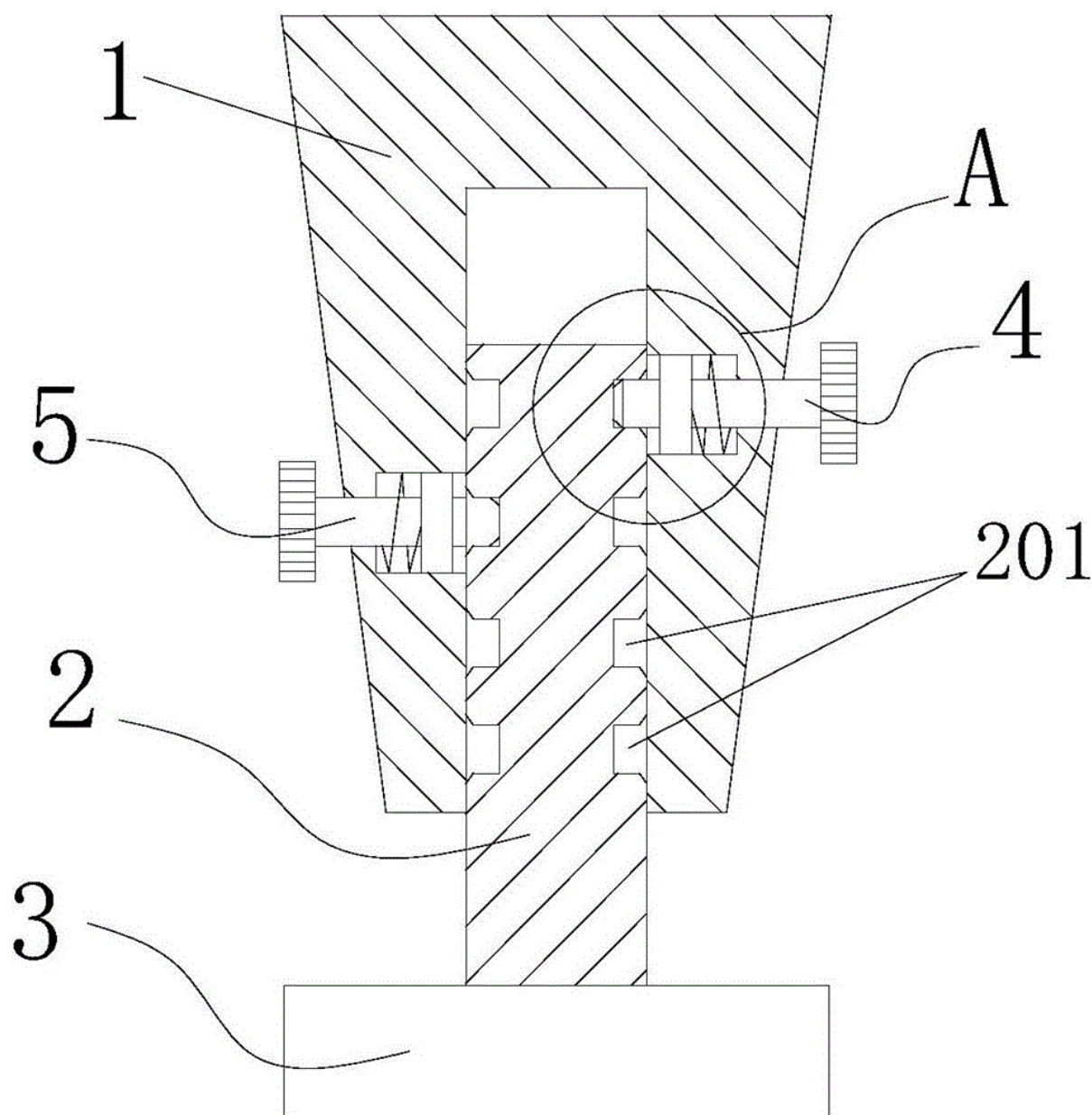
CIXI QIAOTOU SHUANGDUI SHOE FACTORY

Family 289/432 - FAMPAT - ©Questel

Title

(CN205695991U)

Height adjustable shoe heel

Images**Publication data including kind & date**[CN205695991](#)

U

2016-11-23

CN205695991U

**Abstract**

(CN205695991)

The utility model relates to a height adjustable shoe heel, including the heel main part, the spout inside of heel main part is

provided with circular regulating arm, circular regulating arm lower extreme is connected with the supporting shoe, be provided with a plurality of mounting groove on the circumferencial direction of circular regulating arm, one side is provided with first adjusting part between heel main part and the mounting groove, and the opposite side is provided with the second adjusting part, each mounting groove opening form is provided with the angle of inclination, first adjusting part, second adjusting part are all including adjusting pole, stopper, stopper one side is connected with the tensioning spring, it is the round platform form with the one end that the mounting groove contacted to adjust the pole. The utility model discloses can adjust the height of heel at will, but height -adjusting's high -heeled shoes can be made to this heel dress on high -heeled shoes, make things convenient for female wear in different occasions, the angle of inclination can be so that adjust the quick card income of pole, convenient operation simultaneously.

Inventors

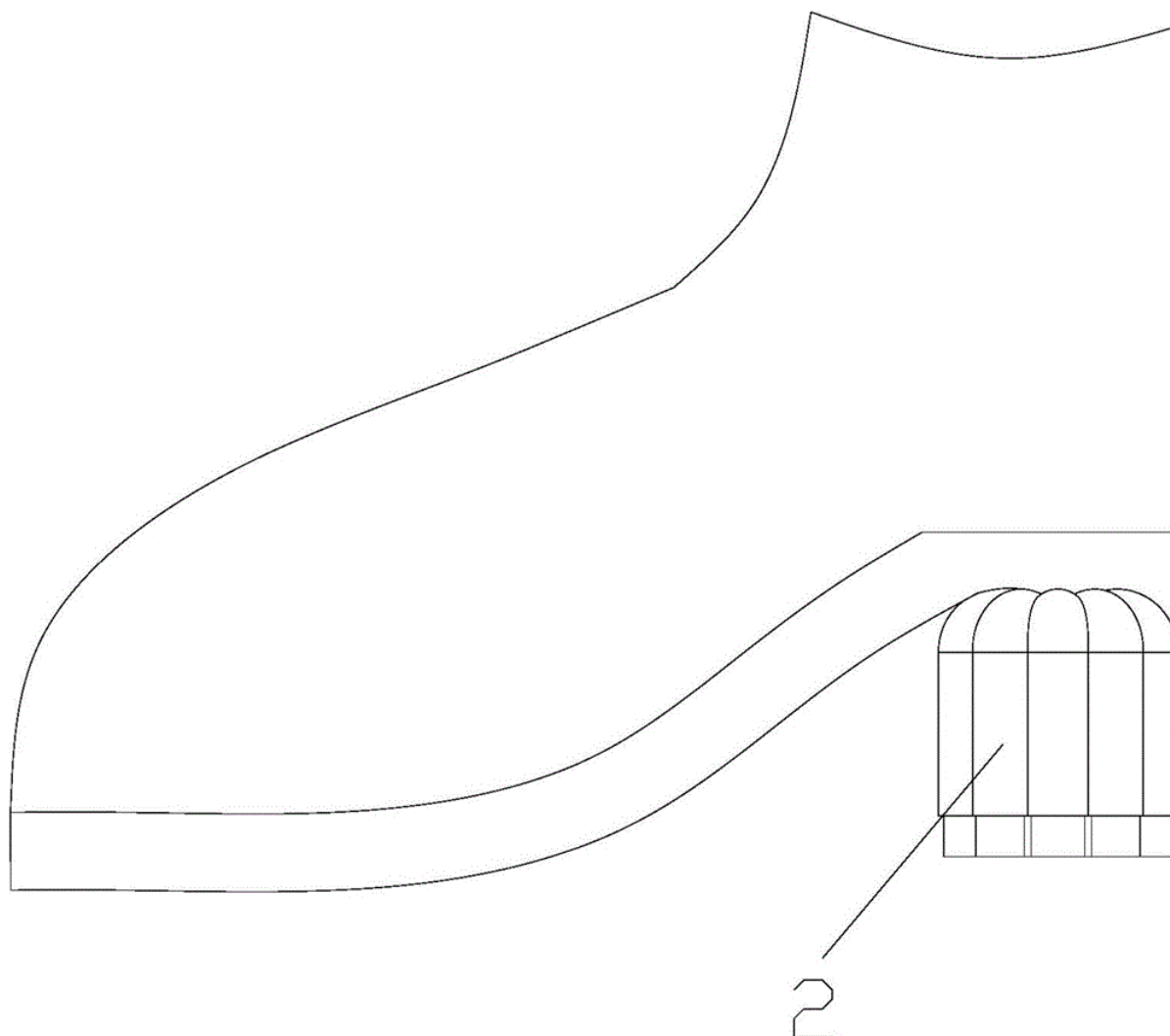
TIAN GANG

Family 290/432 - FAMPAT - ©Questel

Title

(CN205456406U)

U -shaped tubular long -life shoes of breathing freely

Images**Publication data including kind & date**[CN205456406](#)

U

2016-08-17

CN205456406U

**Abstract**

(CN205456406)

The utility model discloses a U -shaped tubular long -life shoes of breathing freely, including vamp and sole, the upper end of sole is equipped with a plurality of ventilative grooves parallel with the sole, and ventilative groove is linked together with the kink of the U type pipe of sole, the heel of a shoe that ring week is high, central authorities cave in that the all arrays of

a plurality of U-shaped pipe rings constitute, U-shaped pipe is equipped with the horn mouth including long tube end and nozzle stub end, long tube end, is equipped with the frustum type piece that takes precautions against earthquakes in the horn mouth, and the one end of the piece that takes precautions against earthquakes is equipped with steel wire soft shaft, and steel wire soft shaft passes U type guan bingyu, and to locate the screw regulating block of nozzle stub end continuous. The utility model provides a U-shaped tubular long-life shoes of breathing freely. The problem of the current sole gas permeability of prior art is poor, can not change shoes life weak point to sole abrasion part is solved.

Inventors

ZHOU JIANZHANG

Latest standardized assignees - inventors removed

START

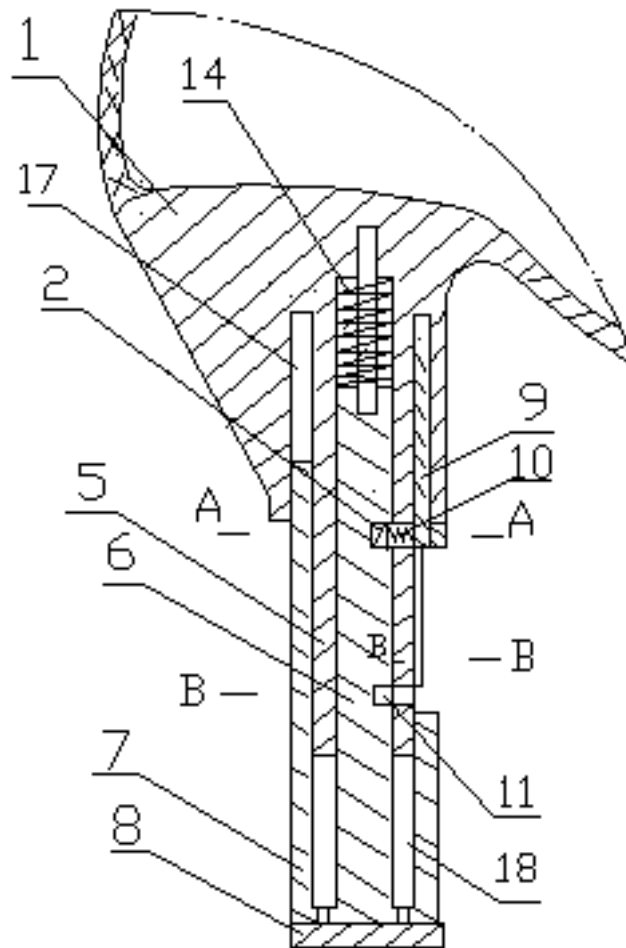
Family 291/432 - FAMPAT - ©Questel

Title

(CN205082782U)

Height-adjustable saves high-heeled shoes

Images



Publication data including kind & date

[CN205082782](#)

U

2016-03-16

CN205082782U



Abstract

(CN205082782)

The utility model discloses a height-adjustable saves high-heeled shoes, it includes sole and heel, the heel include with (1) with follow down that catch up with the end on, and the sole is fixed links to each other, upward have to follow with the lower extreme and overlap (5), the lower attendant of a stage actor draws together heel seat (6), the heel seat matches with following the cover activity, and the heel seat upper end links to each other with last following through expanding spring (14), and the heel seat side is gone up the interval and is provided with spacing groove (11), is provided with the

fixture block that can stretch into limiting groove under the exogenic action with putting in, and fixture block and locking spring (10) one end link to each other, and the locking spring other end links to each other with locking device. This adaptation collect folk songs, take exercise and outdoor activity such as mountain -climbing in dress, the women wears the high -heeled shoes low -heeled shoes that goes out just don't hand -carry, the activity of going out brings very big convenience for the women, it is provisional should not dress high -heeled shoes movable the time especially to go out, is not having under the circumstances of preparation in advance, brings very big convenience for the women.

Inventors

CENG ZHENGHUA

FENG YIQIANG

LI GAN

PENG QIRONG

XIE JUNQI

XIE SHAOKUN

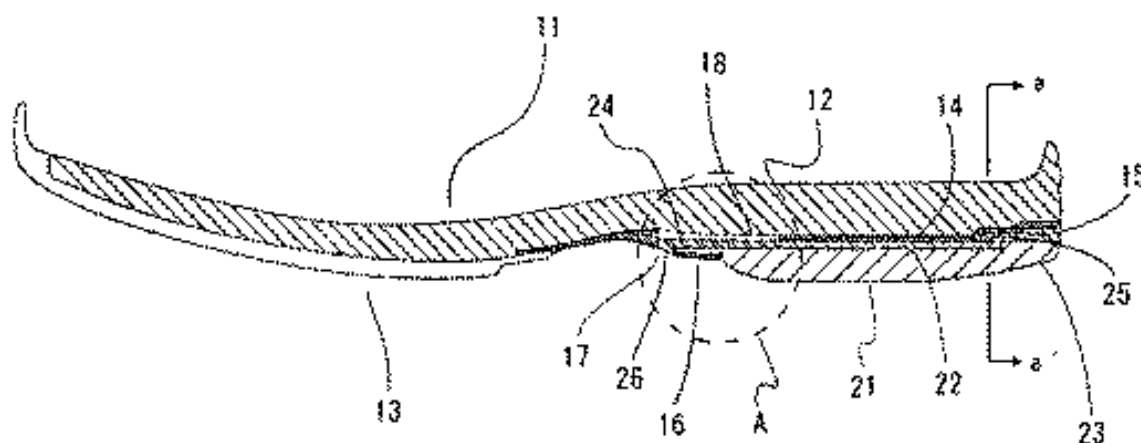
Family 292/432 - FAMPAT - ©Questel

Title

(JP2016019714)

Sole

Images



Publication data including kind & date

JP6277471	B2	2018-02-14	JP6277471
JP2016019714	A	2016-02-04	JP2016019714



Abstract

(JP2016019714)

PROBLEM TO BE SOLVED: To provide a sole for easily changing a heel part of the sole and for achieving the change into the heel part corresponding to the use and individual differences.

SOLUTION: In a sole in which a heel member 21 is attachable to a heel part of a sole body 11, the heel member 21 is slid forward while engaging an engaging groove 15 formed on a lower surface side of the sole body 11, and in association with the movement, a latching projection 24 projected on a heel member tip end is bent by a bar provided on the sole body to be deformed, and is latched to a contact face opening hole 17 of the sole body 11 by a reset action caused by elasticity for the attachment. The heel member is detachable from the sole body 11 by canceling the latched state between the contact face opening hole 17 and the latching projection 24 by bending the latching projection 24 of the heel member 21 upward through the contact face opening hole 17 and sliding the heel member 21 backward.

SELECTED DRAWING: Figure 8

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Inventors

NONAKA YASUYUKI

Latest standardized assignees - inventors removed

ASAHI SHOES

Family 293/432 - FAMPAT - ©Questel

Title

(CN104941143)

Teaching method and rotation apparatus

Images

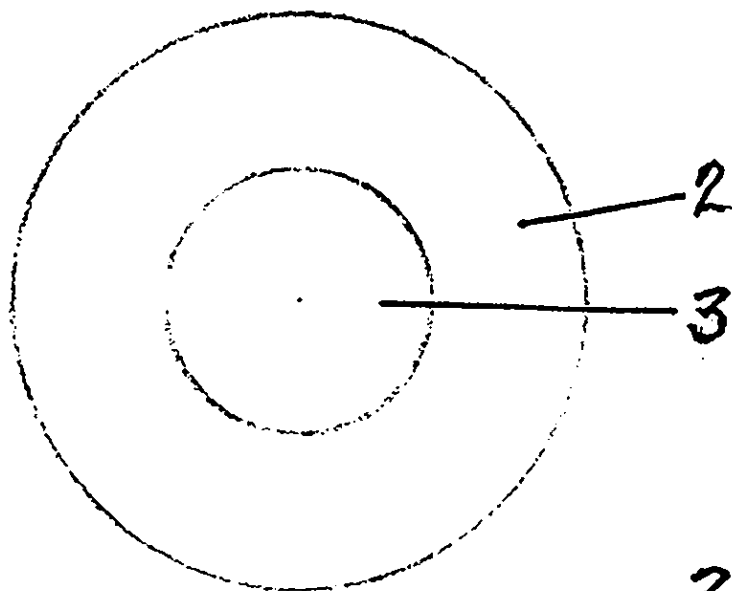


图 1

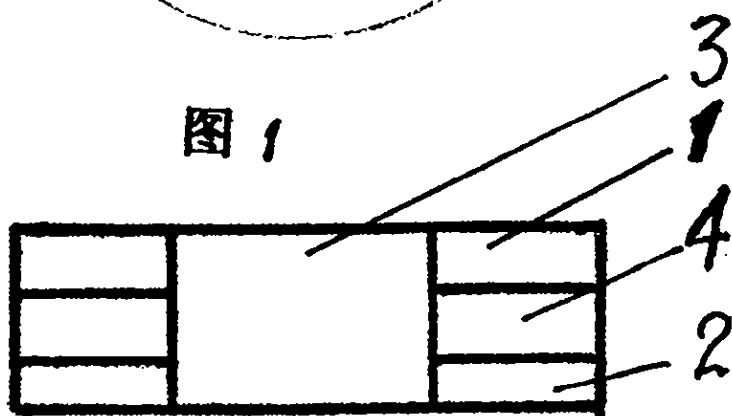


图 2

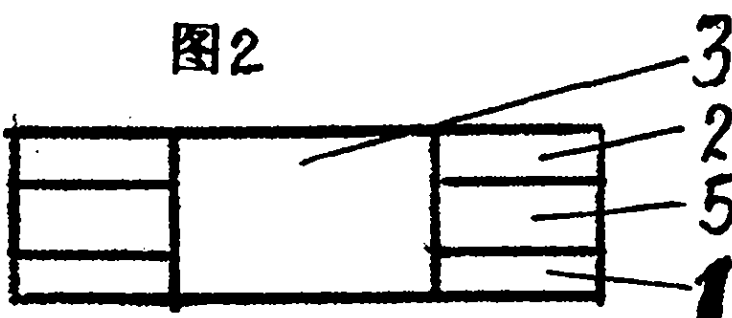


图 3

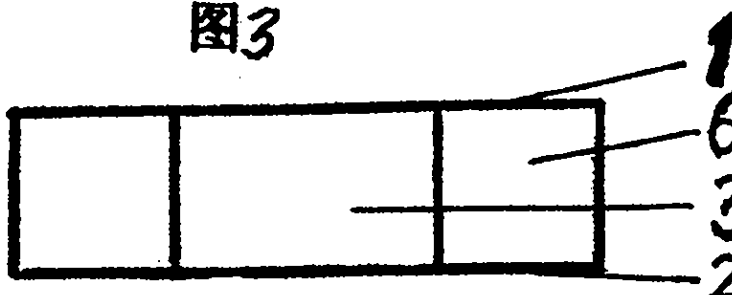


图 4

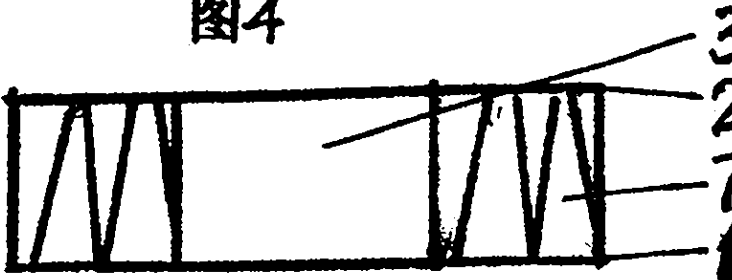


图 5

Publication data including kind & date

CN104705898	B	2017-03-15	CN104705898B
CN104941143	A	2015-09-30	CN104941143
CN104705898	A	2015-06-17	CN104705898

**Abstract**

(CN104941143)

The invention provides a teaching method and a rotation apparatus. Various muscles such as ankles, shanks, thighs, and knees etc. can be exercised at any short time, especially in physical education classes. The rotation apparatus is small and light, the taking and putting of the rotation apparatus and exercises can be done at any time, and every minute in the class can be fully used.

Inventors

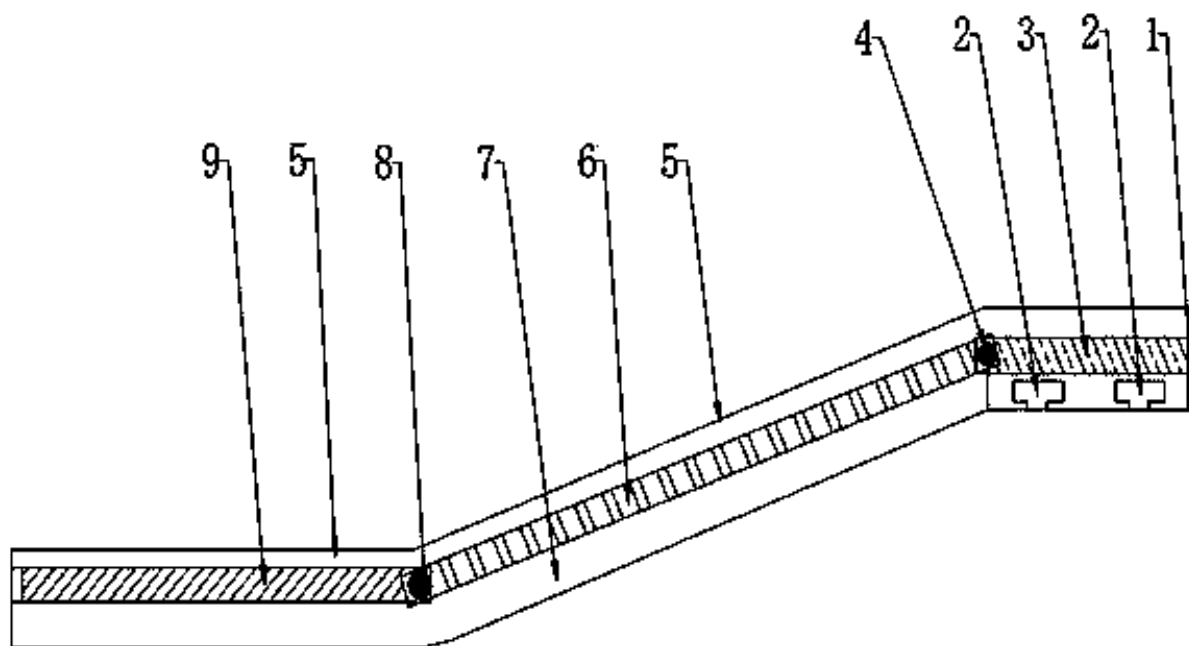
CAO FUQIANG

Family 294/432 - FAMPAT - ©Questel

Title

(CN204070743U)

Detachable heel type high-heeled shoes

Images**Publication data including kind & date**

CN204070743	U	2015-01-07	CN204070743U
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**Abstract**

(CN204070743)

The utility model discloses a pair of detachable heel type high-heeled shoes. Each detachable heel type high-heeled shoe comprises a sole and an upper, wherein the sole is provided with a heel which can be detachably replaced; the sole is sequentially provided with a first-step reinforcing plate, a second-step reinforcing plate and a third-step reinforcing plate from left to right; the lower side surfaces of the first-step reinforcing plate, the second-step reinforcing plate and the third-step reinforcing plate are rubber bottom layers which are in contact with the ground; two clamping grooves which are arranged in parallel are formed in the lower side surface of the third-step reinforcing plate; each high-heeled shoe is also provided with a high heel and a flat heel, and the high heel and the flat heel are respectively matched with the clamping grooves through clamping blocks; the side surface of the third-step reinforcing plate is provided with a locking buckle which is used for locking the clamping blocks. According to the detachable heel type high-heeled shoes disclosed by the utility model, convenient and quick replacing of heels is realized on the basis of the high-heeled shoes, the heels can be conveniently and quickly replaced according to an occasion and foot feeling of a user, the high-heeled shoes can be

directly replaced between the high heels and the flat heels, the using convenience and the using health of the high-heeled shoes are ensured, and foot tissues can be prevented from being injured and feeling pain.

Inventors

HE QIANG

SHU KOUSHENG

Latest standardized assignees - inventors removed

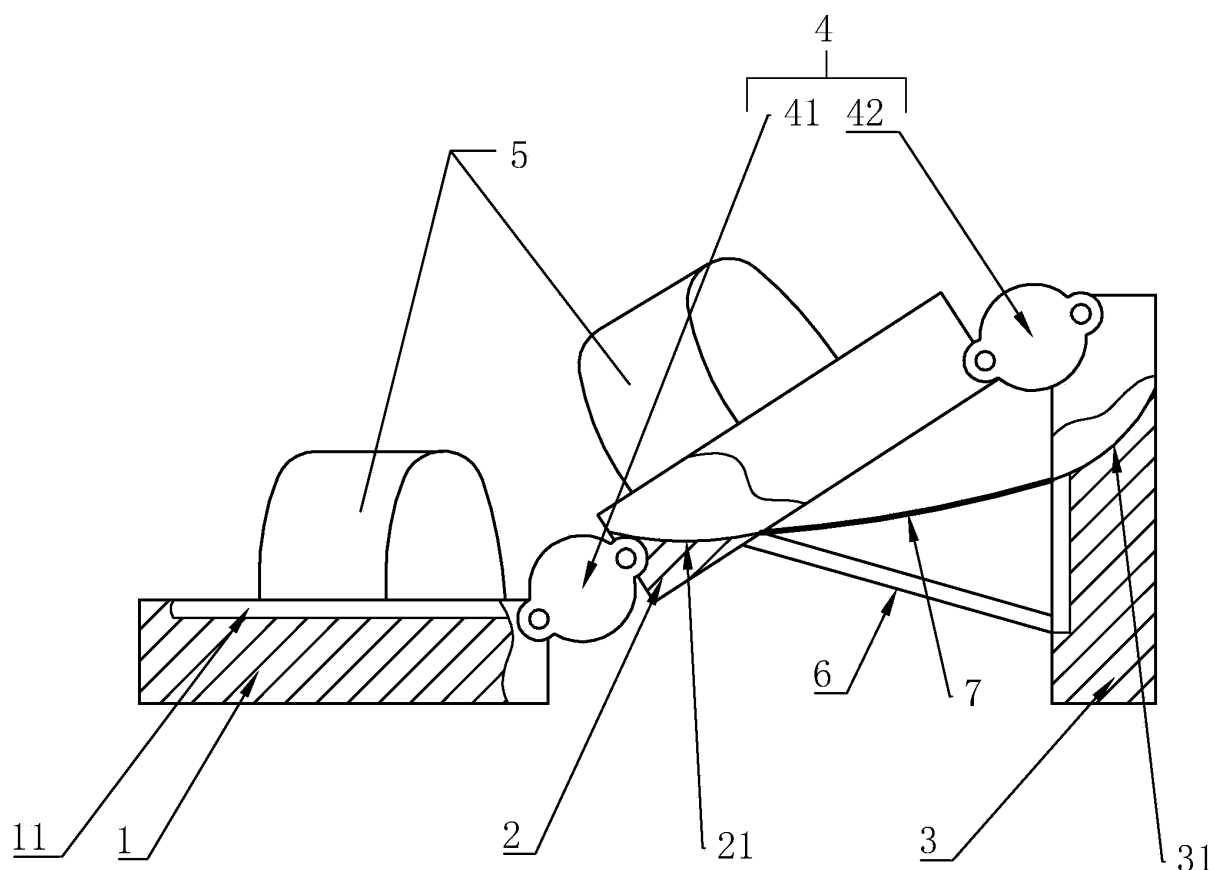
HUAINAN NORMAL UNIVERSITY

Family 295/432 - FAMPAT - ©Questel

Title

(CN203969375U)

Foldable high-heeled shoe

Images**Publication data including kind & date**[CN203969375](#)

U

2014-12-03

CN203969375U

**Abstract**

(CN203969375)

The utility model discloses a foldable high-heeled shoe which comprises a shoe sole and a shoe upper. The shoe sole comprises a front foot sole, a foot arch and a heel which are of separate structures, a first connecting portion which is hinged to the front foot sole and the foot arch is arranged between the front foot sole and the foot arch, a second connecting portion which is hinged to the foot arch and the heel is arranged on the foot arch and the heel, belts are arranged on the front foot sole and the foot arch, a wearer can wear the foldable high-heeled shoe on the foot by the aid of the belts, and the front foot sole is provided with concave structures for accommodating the belts. The foldable high-heeled shoe has the advantages that the high-heeled shoe can be folded, accordingly, spaces occupied by the foldable high-heeled shoe can be reduced, and purposes of conveniently carrying and storing the high-heeled shoe can be achieved.

Inventors

ZHOU YONGHUA

Latest standardized assignees - inventors removed

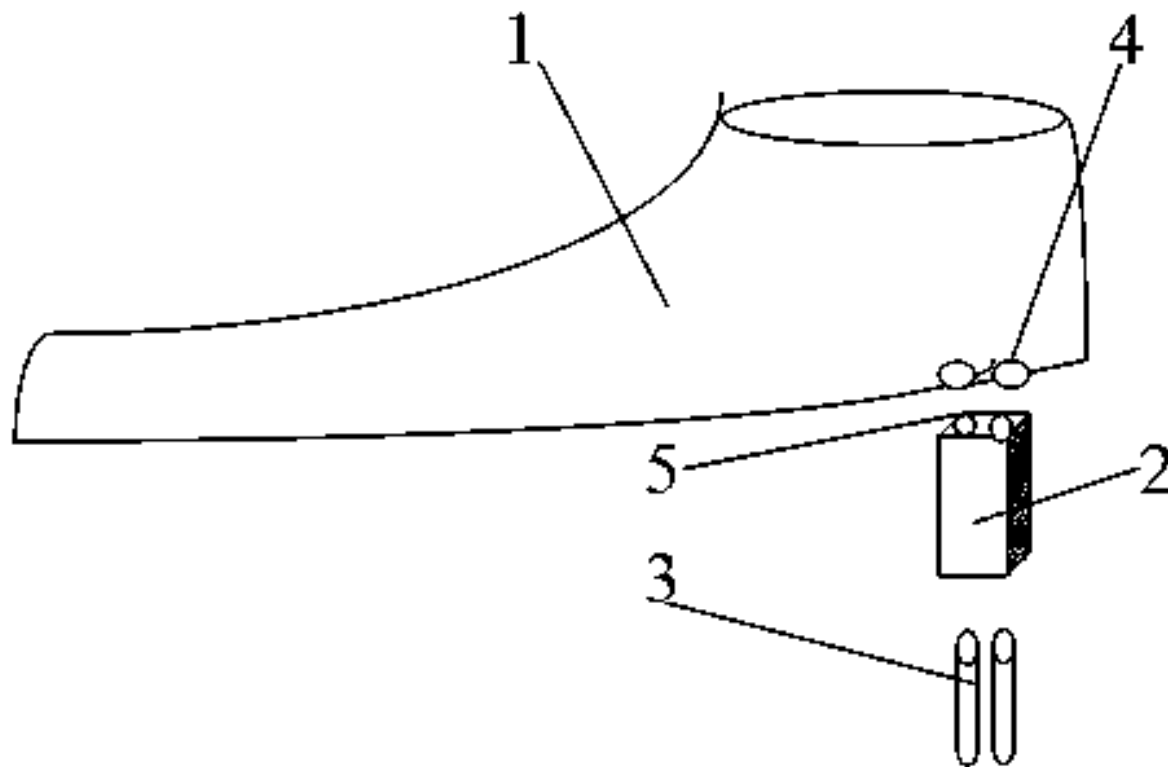
ZHEJIANG HUANAI SHOES

Family 296/432 - FAMPAT - ©Questel

Title

(CN104082907)

Shoe

Images**Publication data including kind & date**[CN104082907](#)

A

2014-10-08

CN104082907

**Abstract**

(CN104082907)

The invention discloses a shoe, wherein a heel can be disassembled from or assembled to the shoe. The shoe comprises a shoe body, the heel and screws. Two small holes arranged in a line are formed in the middle position of the heel, and the positions where the bottom of the tail of the shoe body overlaps with the two small holes arranged in a line in the heel are tapped with threads or embedded with nuts. The shoe is characterized in that the heel and the shoe body are connected and fixed through the screws. The heel can be disassembled or assembled independently, and heels of different heights can be selected for the same shoes according to demands or preferences of users or environmental states to reach a perfect state.

Inventors

QUAN FENGZHENG

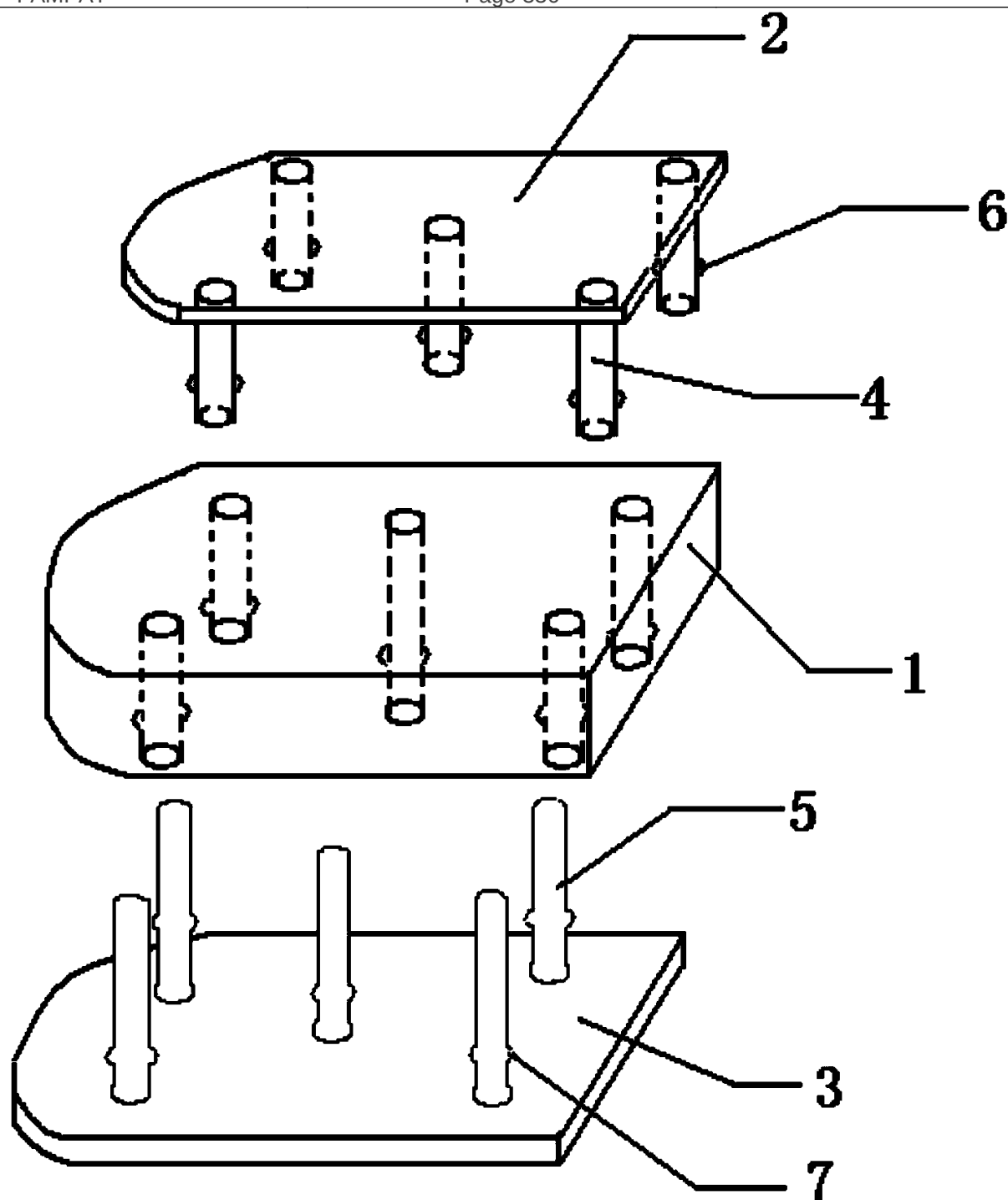
Family 297/432 - FAMPAT - ©Questel

Title

(CN203676298U)

Detachable shoe heel

Images

**Publication data including kind & date**

CN203676298

U

2014-07-02

CN203676298U

**Abstract**

(CN203676298)

The utility model relates to a detachable shoe heel. The detachable shoe heel comprises a heelpiece, an inner half-yard pad arranged in the heelpiece and an outer half-yard pad arranged outside the bottom of the heelpiece, wherein the inner half-yard pad is connected with the heelpiece through hollow steel tubes, the hollow steel tubes penetrate through the inner half-yard pad and the heelpiece, an opening in the end, stopped at the bottom of the heelpiece, of each hollow steel tube is provided with a clamping groove, the outer half-yard pad is provided with solid steel columns, the solid steel columns penetrate through the outer half-yard pad and are respectively provided with a flange matched with the clamping groove in one end of the corresponding hollow steel tube in shape and size, the solid steel columns are inserted into the hollow steel tubes, and the flanges are connected into the clamping grooves in a clamped mode. A user does not need to bond the shoe heel through adhesives and can replace the detachable shoe heel easily at home by herself, and therefore resources are saved; more importantly, the user can replace the detachable shoe heel anytime and anywhere to avoid the situation that a left shoe heel and a right shoe heel are worn to be asymmetric, and therefore knock-knees of beautiful young girls

can be corrected.

Inventors

SHEN LINGLI

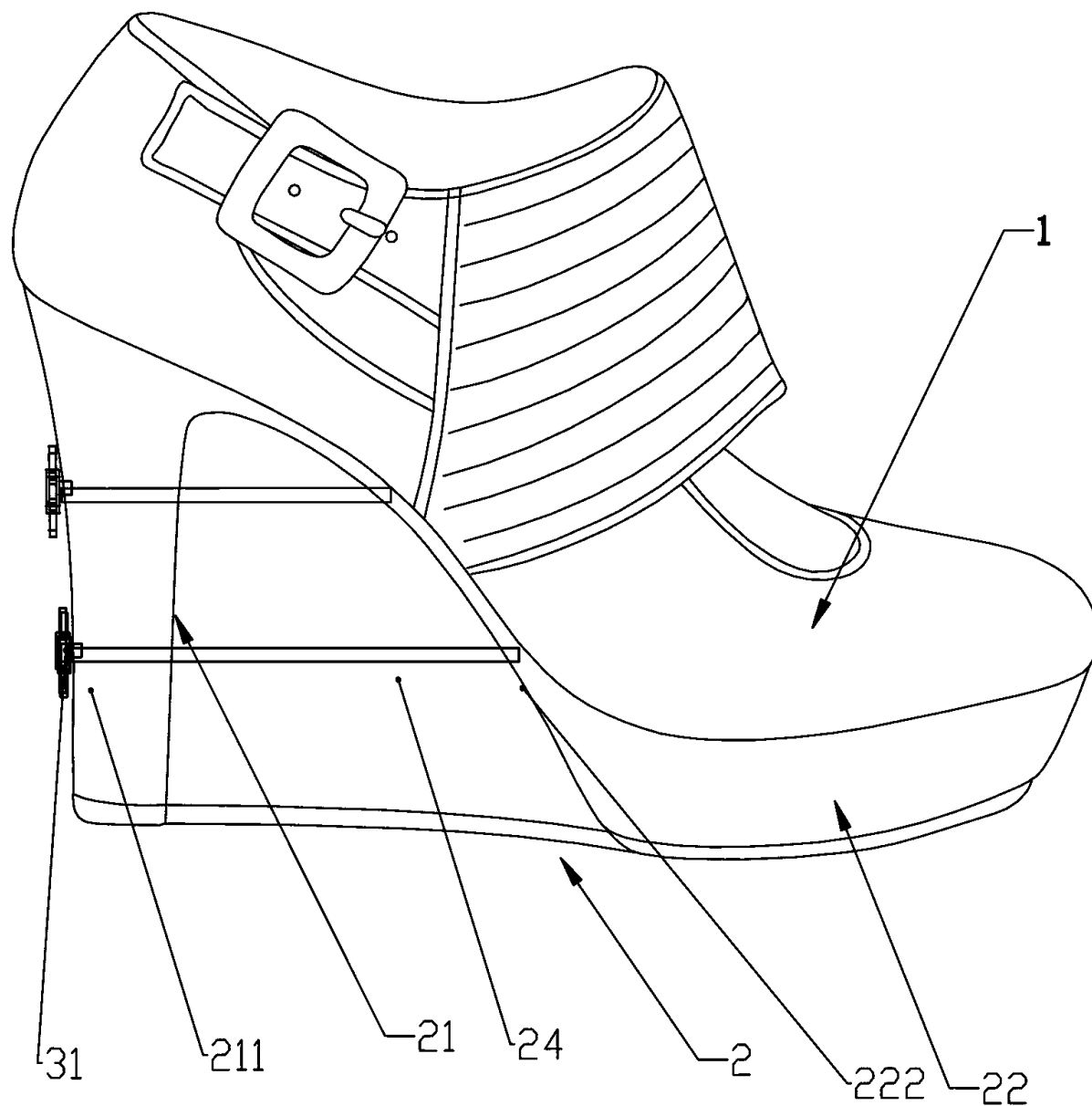
XIE XINXIN

Family 298/432 - FAMPAT - ©Questel

Title

(CN203314208U)

Heel-changeable high-heeled shoe

Images**Publication data including kind & date**

[CN203314208](#)

U

2013-12-04

CN203314208U

**Abstract**

(CN203314208)

The utility model relates to a pair of shoes, in particular to a pair of heel-changeable high-heeled shoes, and adopts the following technical scheme that each heel-changeable high-heeled shoe comprises an upper and a sole, wherein the bottom surface of the sole consists of a heel piece part and a foot sole part; a heel is arranged at the heel piece part; a concave cavity is formed between the heel and the foot sole part; the high-heeled shoe is characterized in that a filling block matched with the concave cavity in shape is detachably arranged in the concave cavity; the bottom surfaces of the filling block, the heel and the foot sole part of the sole form the same plane. By adopting the technical scheme, the defects

in the prior art are overcome, and the heel-changeable high-heeled shoe is attractive in appearance and suitable for some social engagement occasions such as offices and evening parties, and facilitates long-time walking.

Inventors

WANG WEIXIA

CAO YING

ZHAN CHAOJIE

Latest standardized assignees - inventors removed

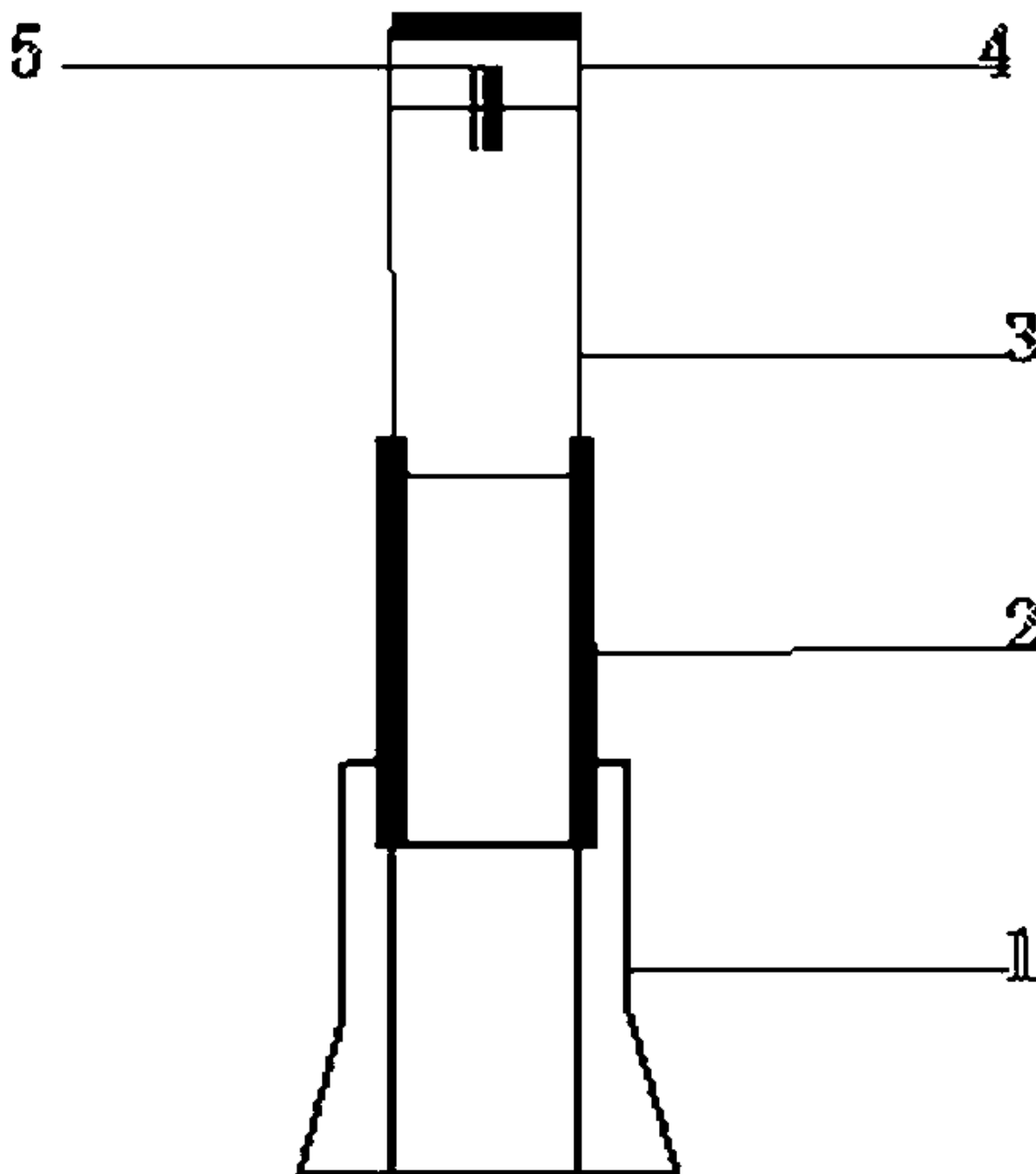
ZHEJIANG AOKANG SHOES

Family 299/432 - FAMPAT - ©Questel

Title

(CN102835783)

Telescopic defensive and safe female shoe heel

Images**Publication data including kind & date**[CN102835783](#)

A

2012-12-26

CN102835783



Abstract

(CN102835783)

The invention discloses a telescopic defensive and safe female shoe heel, comprising a low heel sleeve, a moderate heel tube, a high heel tube and a wear resistant heel, wherein a low heel shaped like the combination of a circular truncated cone and a cylinder is arranged at the outer side and is fixed with the outer side of the moderate heel tube by threads through a thread blind hole; one end of the moderate heel tube is fixed with the outer side of the high heel tube by threads through a thread blind hole; a blind hole for hiding defensive spraying chemical is arranged in the high heel tube, and a thread through hole matched with a fixed nail is arranged in the sealing port of the blind hole; and the wear resistant heel is arranged at one end of the high heel tube, and is fixed with a chemical spraying sealing port screw hole arranged in the high heel tube through the fixed nail. When the shoe heel is used, if a part is damaged, only the damaged part is unscrewed and replaced. When a user is attacked by a criminal, the user can take off the shoe with the shoe heel, unscrew the wear-resistant heel and spray the chemical in the high heel to the eyes of the criminal, so that the user can escape. According to the telescopic defensive and safe female shoe heel, the design structure is ingenious, the comprehensive performance is superior, the shoe heel is multifunctional, economical and practical, the functions of wear resistance, anti-skidding and defense are realized, the shoe heel can be assembled into a low heel, a moderate heel and a high heel, the shoe heel is novel, elegant and convenient, safe, energy-saving and environmental-friendly, further the manufacturing and use costs are lower, and the comprehensive effect is obvious.

Inventors

WEI ZHAN

Latest standardized assignees - inventors removed

LIUZHOU JINGYANG ENERGY SAVING TECHNOLOGY RESEARCH & DEVELOPMENT

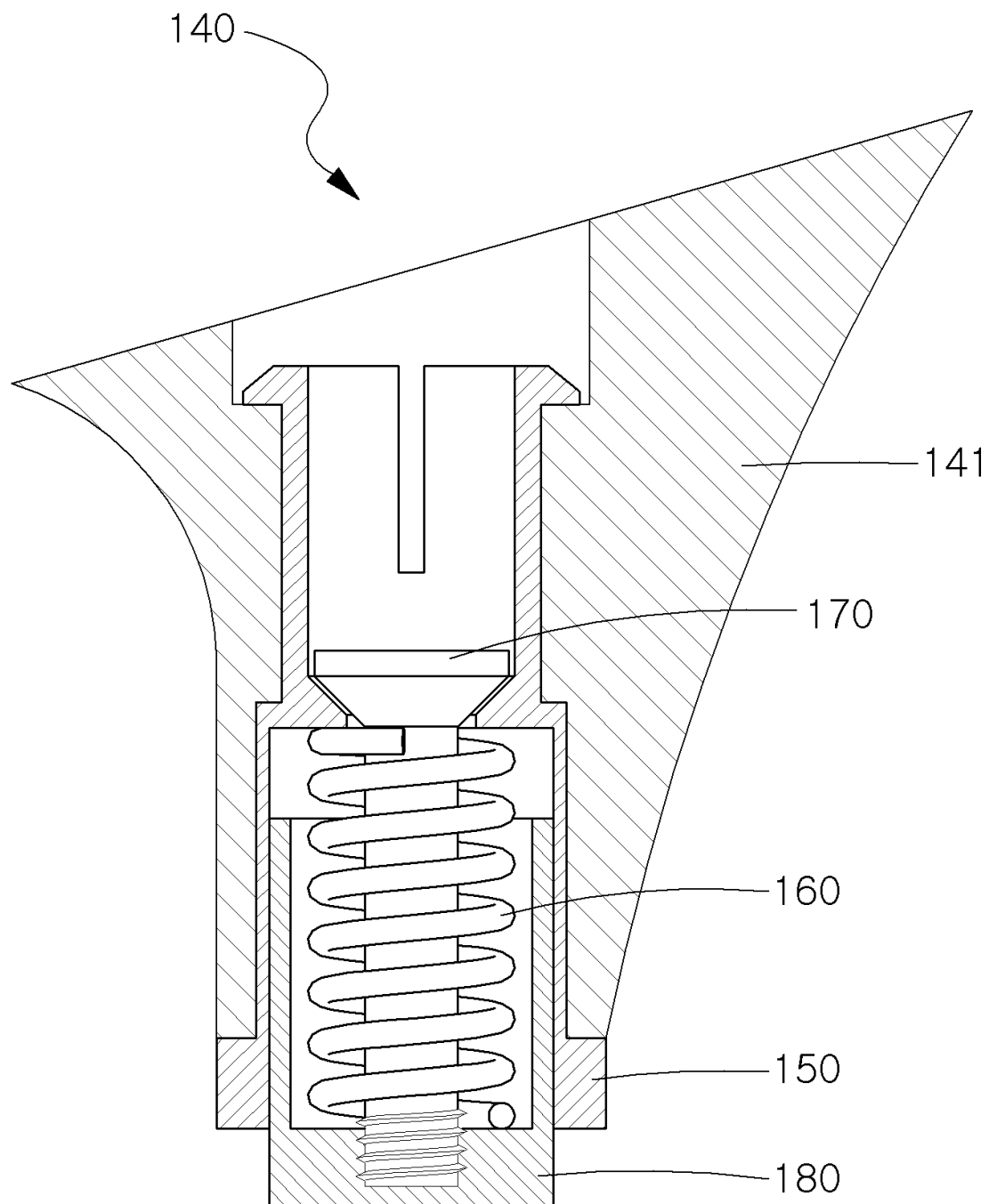
Family 300/432 - FAMPAT - ©Questel

Title

(KR101201844)

a shoes

Images

**Publication data including kind & date**[KR101201844](#)

B1 2012-11-15 KR101201844

**Abstract**

(KR101201844)

PURPOSE: Shoes with a heel are provided to enable a user to conveniently replace and repair a heel according to the working habit or weight of a user. **CONSTITUTION:** Shoes with a heel comprise uppers of leather, an insole, an outsole, and a heel(140). The heel comprises a heel body(141), a heel sole body(150), and a heel sole buffer member(180). In the heel body, an upper space, a lower space, and a middle space are formed. The heel sole body is inserted into the lower part of the heel sole body. In the low part of the heel sole body, a heel protection jaw is formed. An elastic attaching and detaching unit is formed on the top of the heel sole body. The heel sole buffer member is installed in the lower part inside of the heel sole body and has an elastic spring(160). In the center of the elastic spring, a guide rod(170) is fixed.

Inventors

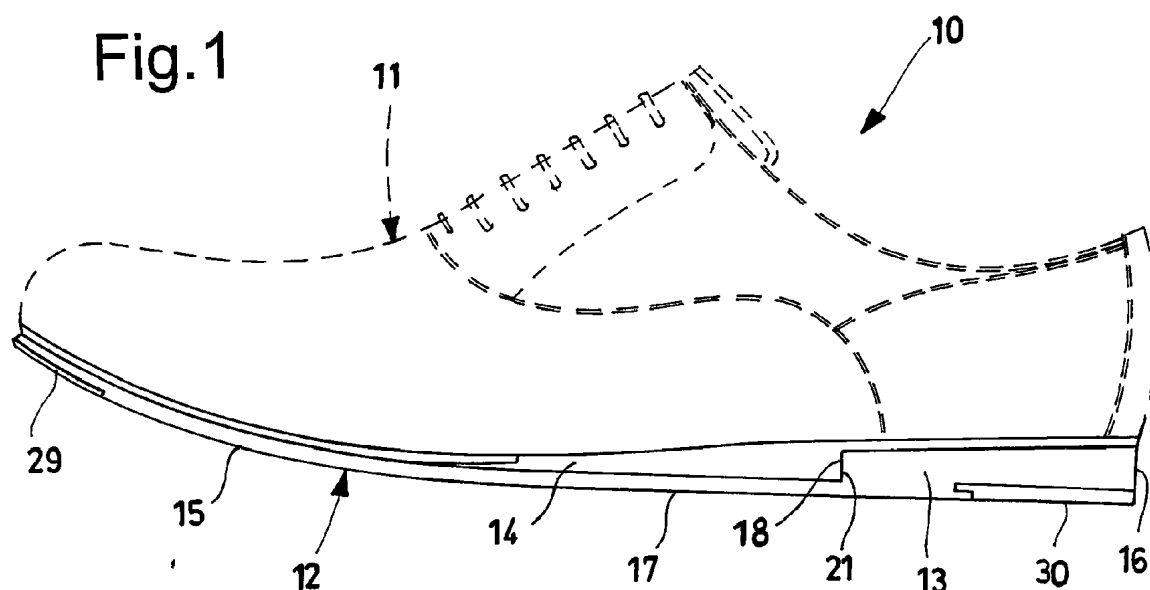
GO, JONG-TAEK

Family 301/432 - FAMPAT - ©Questel

Title

(EP2676561)

Shoe bottom and method for making such bottom

Images**Publication data including kind & date**

JP2014036837	A	2014-02-27	JP2014036837
CN103504698	A	2014-01-15	CN103504698
EP2676561	A1	2013-12-25	EP2676561
ITMI20121050	A1	2013-12-19	IT2012MI1050

**Abstract**

(EP2676561)

A shoe bottom (12) comprises an outsole element (13) having a substantially flat lower surface (17) designed to rest on the ground and an insole (14) superimposed on said outsole element (13). The outsole element (13) has a rear heel portion (16) protruding upwardly with respect to a front sole portion (15) thereof and the insole (14) has a lower surface (20) which comprises a hole (24) open downwardly and suitable for housing the heel portion (16) protruding upwardly from the outsole element (13) and which is complementary to the upper surface (19) of the outsole element (13).

Inventors

DOLCE DOMENICO
GABBANA STEFANO

Latest standardized assignees - inventors removed

DOLCE & GABBANA

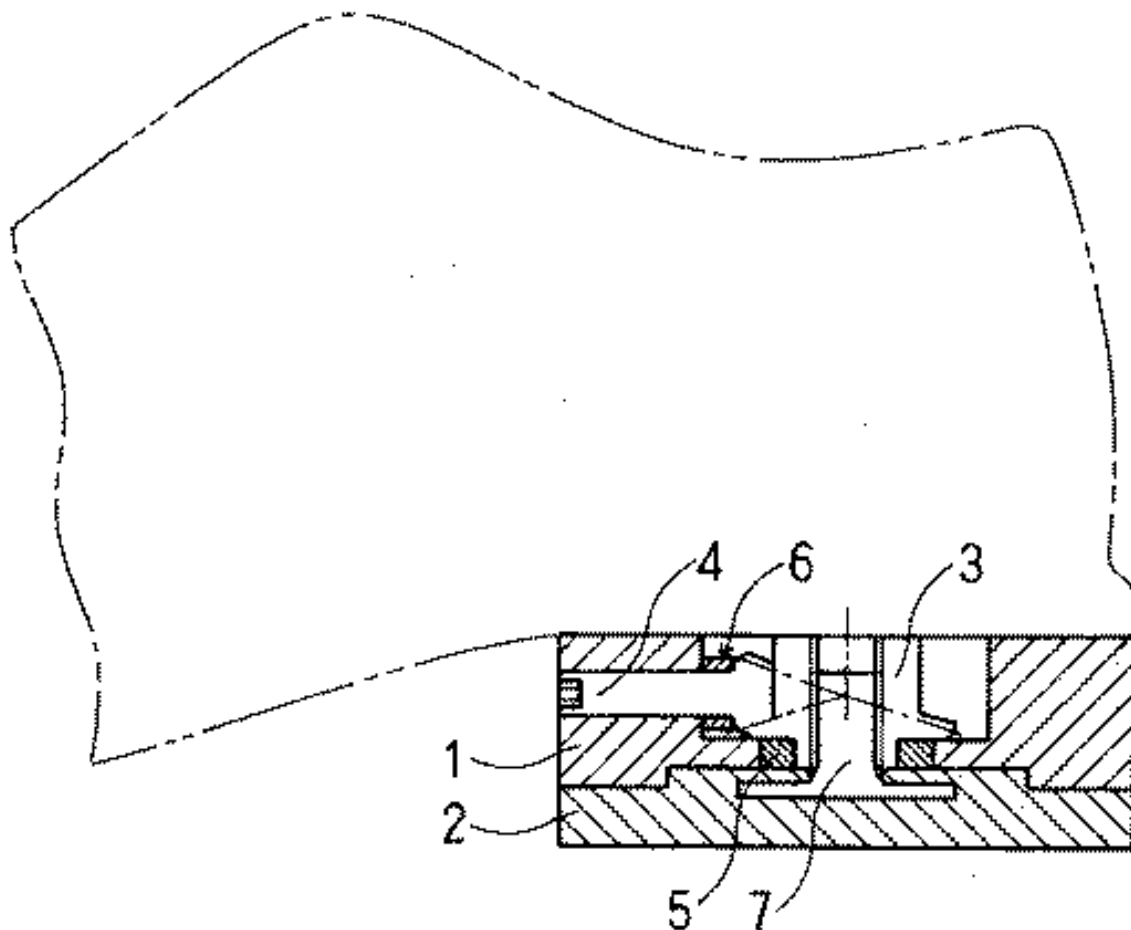
Family 302/432 - FAMPAT - ©Questel

Title

(JP2013000555)

Double-layered heel that can be turned to all directions for use

Images

**Publication data including kind & date**

JP2013000555	A	2013-01-07	JP2013000555
JP5019241	B1	2012-06-22	JP5019241

**Abstract**

(JP5019241)

PROBLEM TO BE SOLVED: To provide a double-layered heel designed for use of favorite shoes over a long period of time, wherein the worn heel can be turned and set in any direction to prevent wear concentration and to allow easy replacement of its parts. **SOLUTION:** The double-layered heel includes an upper layer (1), a lower layer (2), and a pair of large umbrella wheel (3) and small umbrella wheel (4) of different sizes which are positioned in a hollow part of the upper layer of the heel and engaged with each other with their shafts crossed at a right angle. A female screw is formed in the vertical shaft of the large umbrella wheel (3) and is engaged with a male screw (7) fixed on the lower layer (2) with its head buried underneath. To facilitate an operation of connecting or disconnecting the upper layer (1) to or from the lower layer (2) at the perimeter of the upper layer (1), the upper layer (1) is provided with a horizontal through hole through which the head having a screw hole of the small umbrella wheel (4) is inserted. At the joining surfaces of the upper layer (1) and the lower layer (2), an inner shape in contact is a surface of a quadrangular prism, while the outer portions are formed in a shape of a column.

Inventors

SANO TETSUYA

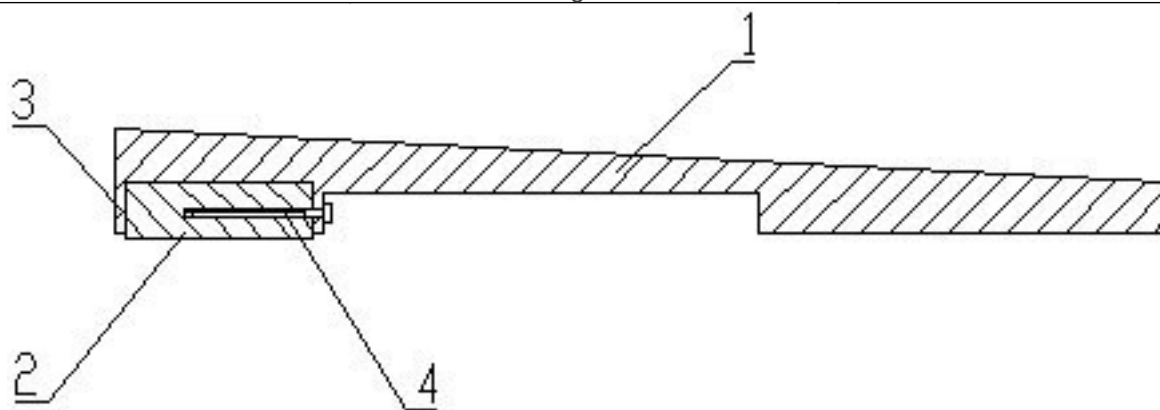
Family 303/432 - FAMPAT - ©Questel

Title

(CN201995736U)

Shoe with replaceable heel

Images

**Publication data including kind & date**[CN201995736](#)

U

2011-10-05

CN201995736U

**Abstract**

(CN201995736)

The utility model discloses a shoe with a replaceable heel, which comprises a sole and the heel detachably arranged on the sole. After being abraded, the heel can be conveniently detached and replaced, and the service life of the shoe is prolonged. In addition, by the aid of an enveloping cover arranged on the sole, appearance of a combined position of the enveloping cover with the sole cannot be affected after the heel is replaced every time, and the negative effect of replacement of the heel on attractiveness of the shoe is avoided. Simultaneously, the heel can be positioned easily and accurately, so that replacement efficiency is improved.

Inventors

YANG YIFEN

Latest standardized assignees - inventors removed

ZUYOU SPORTS ARTICLES

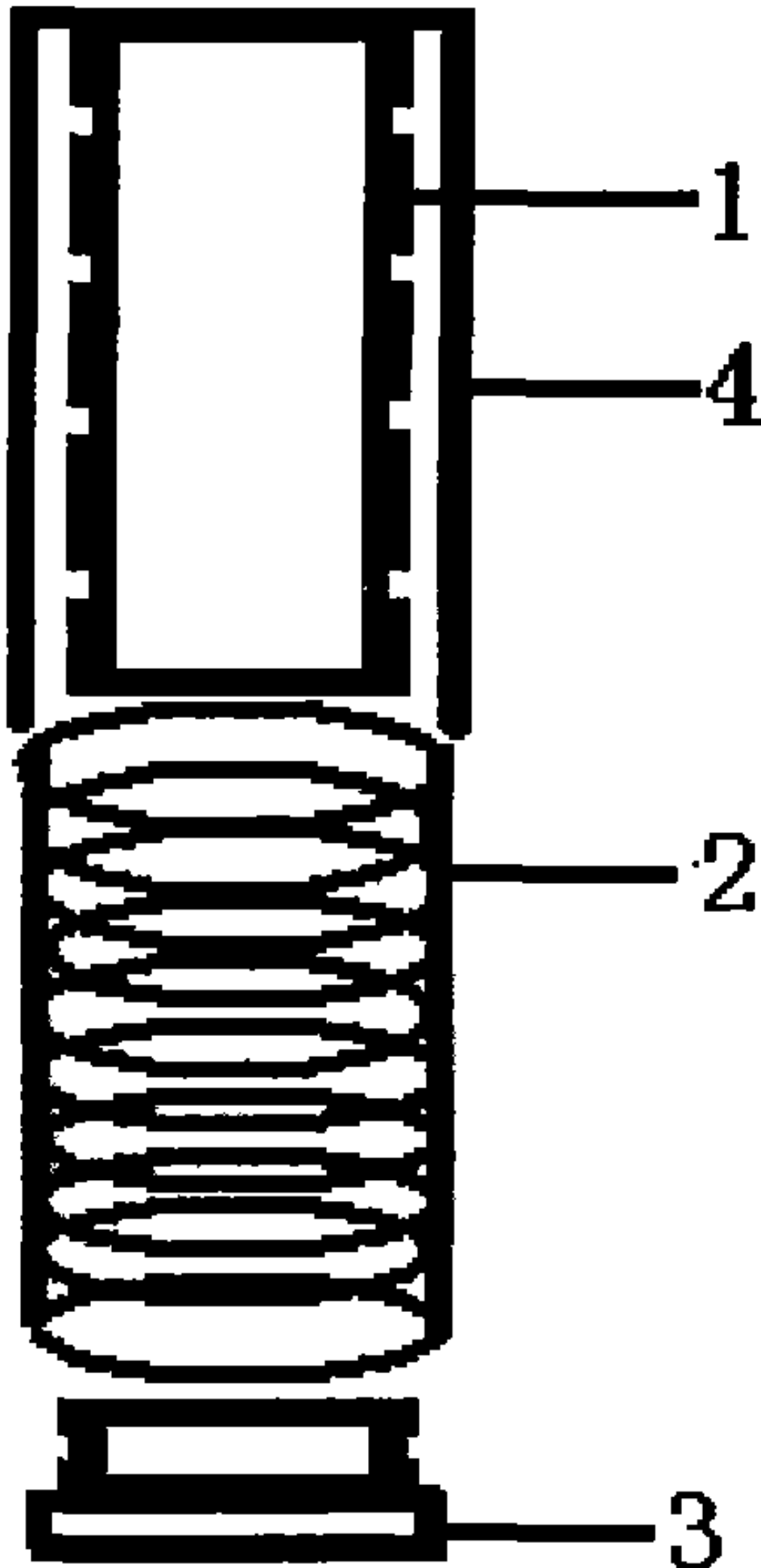
Family 304/432 - FAMPAT - ©Questel

Title

(CN201219564U)

Helical burr type adjustable replacing heels

Images



Publication data including kind & date

CN201219564

Y

2009-04-15

CN201219564U

**Abstract**

(CN201219564)

The utility model discloses a thread type adjustable and replaceable heel which can be replaced or adjusted at any time and comprises a fixing heel, a telescopic heel and a friction heel, wherein the fixing heel is connected with the telescopic heel by a thread structure or device, the telescopic heel is connected with the friction heel by a dismountable structure or device, threads are arranged on the inner sides or the outer sides of the fixing heel and the telescopic heel, the inner sides or the outer sides of the telescopic heel and the friction heel are carved with threads or clamping holes which are mutually and tightly screwed and clamped to enable the members of the heels to be connected, protecting pieces are surrounded on the peripheries of the fixing heel or the telescopic heel, namely the thread structure or device point, one fixing heel can be matched with 1 to 10 telescopic heels and friction heels, the telescopic heel is rotated to adjust the height of the heel, and the telescopic heel or the friction heel can be replaced into different styles or heights according to requirements. The utility model is convenient to the trip, the tour and the working requirement of people, in particular to women, and can save cost for enterprises.

Inventors

LIAN BIN

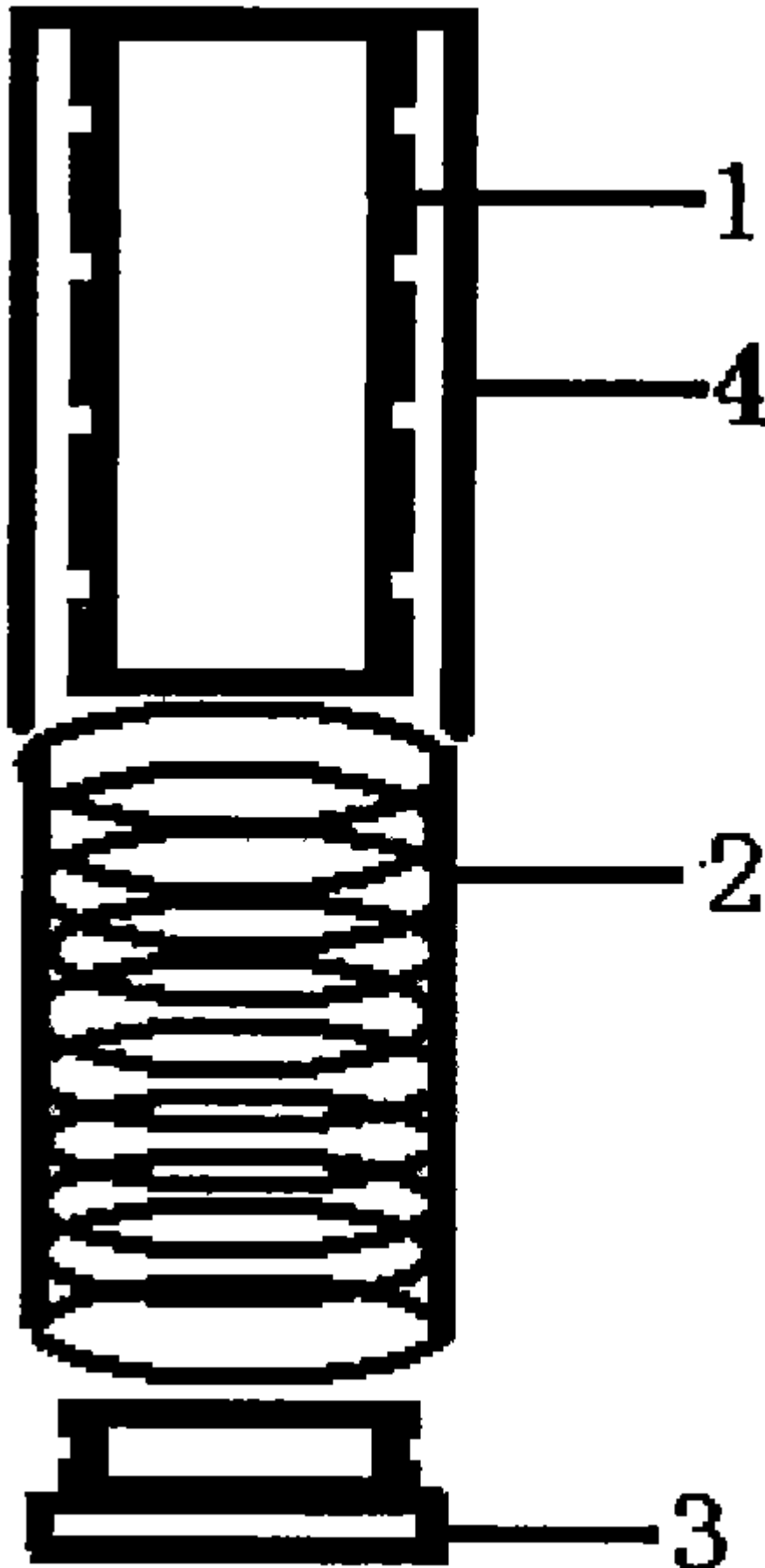
Family 305/432 - FAMPAT - ©Questel

Title

(CN101263946)

Screw thread type adjustable changeable heel

Images



Publication data including kind & date

CN101263946

A 2008-09-17

CN101263946



Abstract

(CN101263946)

The invention discloses a screw thread type adjustable and changeable heel which can change or adjust the heel momentarily, comprising a fixed heel, a scalable heel, and a frictional heel, which is characterized in that: the fixed heel and the scalable heel are connected with each other through a structure or a device with screw threads, and the scalable heel and the frictional heel are connected with each other through a detachable structure or device; a plurality of screw threads are carved on the inner side or the outer side of the fixed heel and the scalable heel, and a plurality of screw threads or bayonets are carved on the inner side or outer side of the scalable heel and the frictional heel, each part of the heel can be connected with each other by tightening or clamping the screw threads or the bayonets; a protective sheet is around the external periphery of the fixed heel or the scalable heel that is the structure or device with screw threads, one fixed heel can be matched with one to ten scalable heels and frictional heels; the height of the heel can be adjusted by rotating the scalable heels, and the scalable heels and the frictional heels with different styles or heights can be changed according to requirement. The heel has the advantages of convenience for the traveling, tourism and work needs for people, in particular to females, and cost saving for enterprise.

Inventors

LIAN BIN

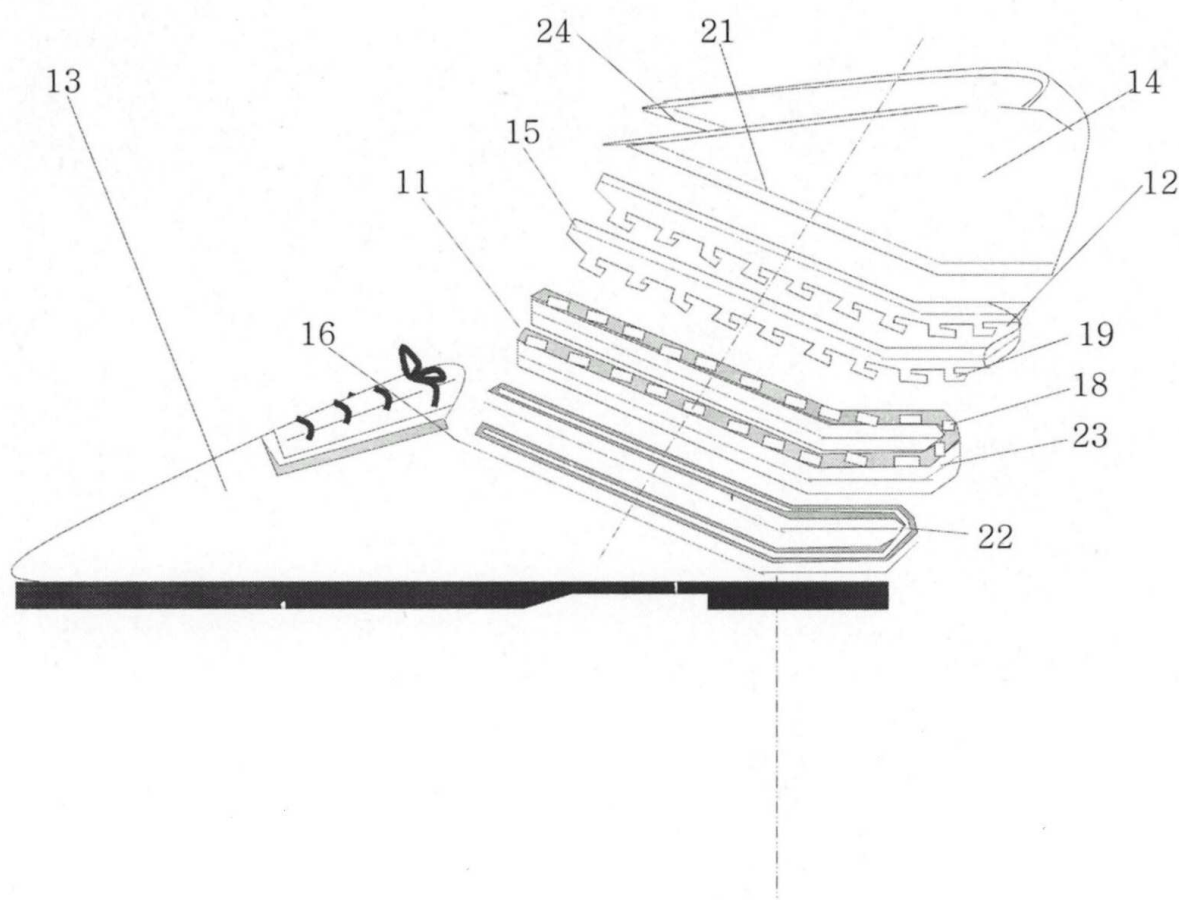
Family 306/432 - FAMPAT - ©Questel

Title

(KR100874087)

Used as a slipper and a shoes

Images



Publication data including kind & date

KR100874087

B1 2008-12-16

KR100874087



[KR20080070108](#)

A 2008-07-30 KR20080070108

Abstract

(KR20080070108)

A multipurpose shoe is provided to be distinguished into a front part and a rear part to be used as a shoe, a slipper and a height increasing shoe by using a low heel or a high heel. A multipurpose shoe constitutes a slipper combined with a shoe and a height increasing shoe at the same time. The front part of the shoe is formed to have two layers in the shape of U. Plural holes are formed on the front part of the shoe. A female mounting tool(11) in the shape of U is inserted into the two layers in the shape of U and then the plural holes of the female mounting tool and the plural holes of the front part(13) of the shoe are bonded by sewing to form a slipper. A male mounting tool(12) is bonded to the rear two layers of the shoe(14).

Inventors

KIM, SANG-HOON

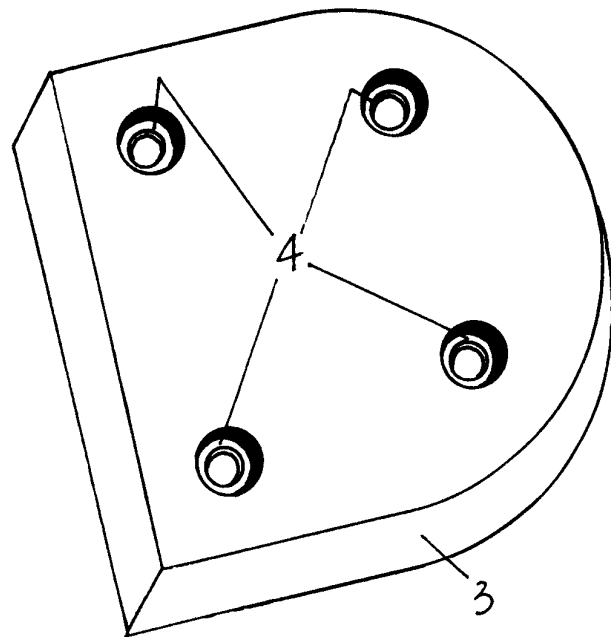
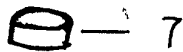
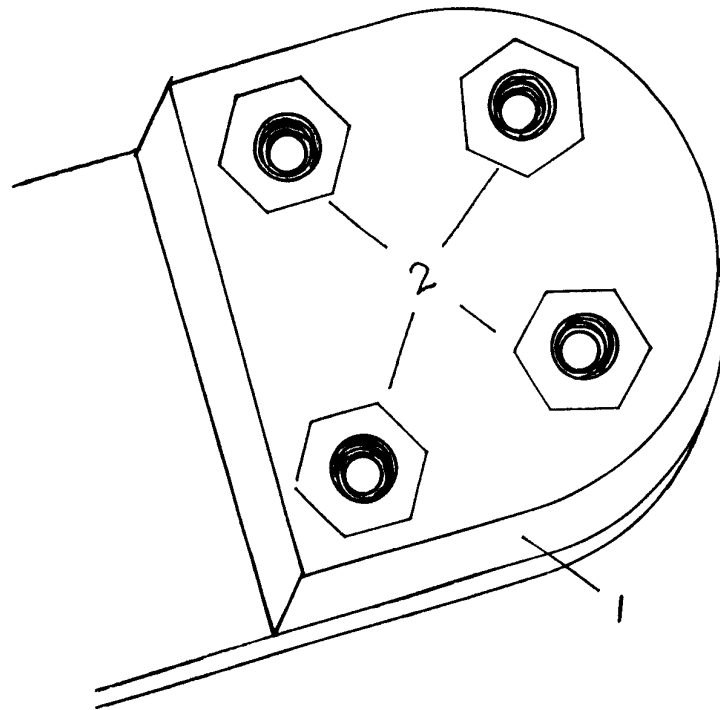
Family 307/432 - FAMPAT - ©Questel

Title

(CN100998456)

Means for changing heel of shoes

Images

**Publication data including kind & date**[CN100998456](#)

A 2007-07-18 CN100998456

**Abstract**

(CN100998456)

An exchangeable heel of a shoe is composed of a heel base connected directly to sole of shoe and with built-in nuts, an exchangeable heel with screw holes relative to said nuts on heel base, and several washers and screws.

Inventors

LI JINWEI

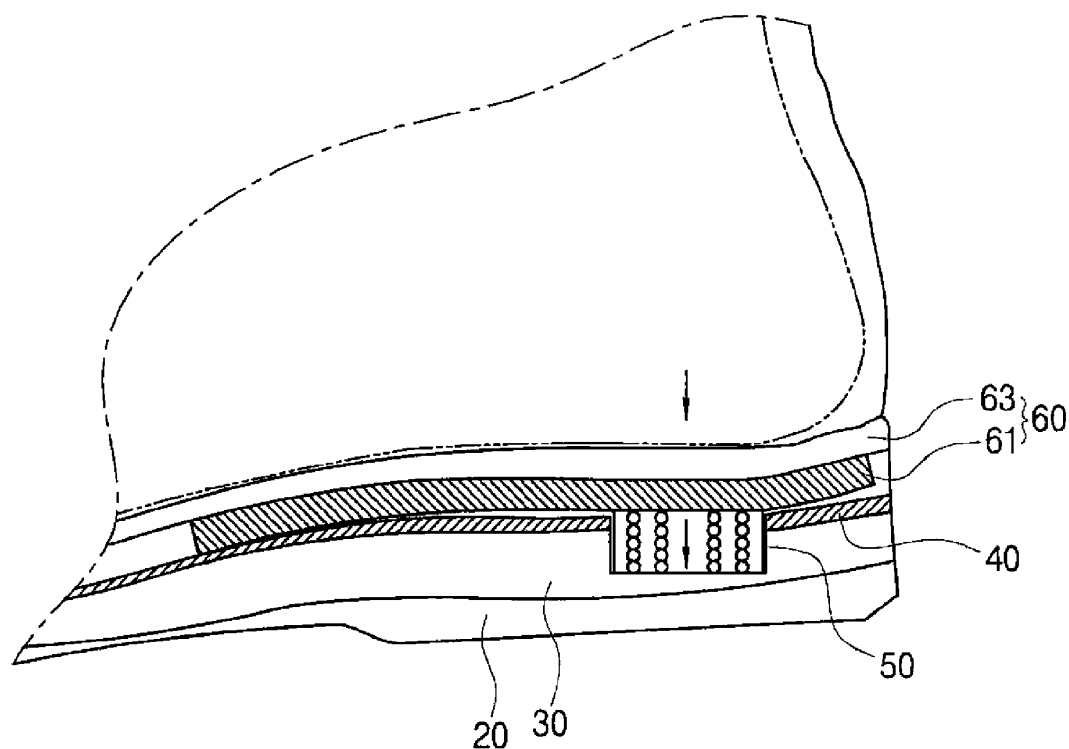
Family 308/432 - FAMPAT - ©Questel

Title

(WO200860065)

Shoes having impact absorption part

Images



Publication data including kind & date

JP5254240	B2	2013-04-26	JP5254240
US8104194	B2	2012-01-31	US8104194
CN101553144	B	2011-10-05	CN101553144B
US20100236093	A1	2010-09-23	US20100236093
JP2010509020	A	2010-03-25	JP2010509020
CN101553144	A	2009-10-07	CN101553144
WO2008/060065	A1	2008-05-22	WO200860065
KR100830124	B1	2008-05-19	KR100830124



Abstract

(WO2008/060065)

The present invention relates to a shoe, and more particularly to a shoe including a mid-sole groove formed at a mid-sole, a texon hole formed at a texon, and an impact absorption member inserted between the mid-sole and the texon hole so that the shoe can absorb impact exerted on user's knees and ankles while the user walks or exercises, thereby protecting them.

Inventors

KIM SUK KOUNG

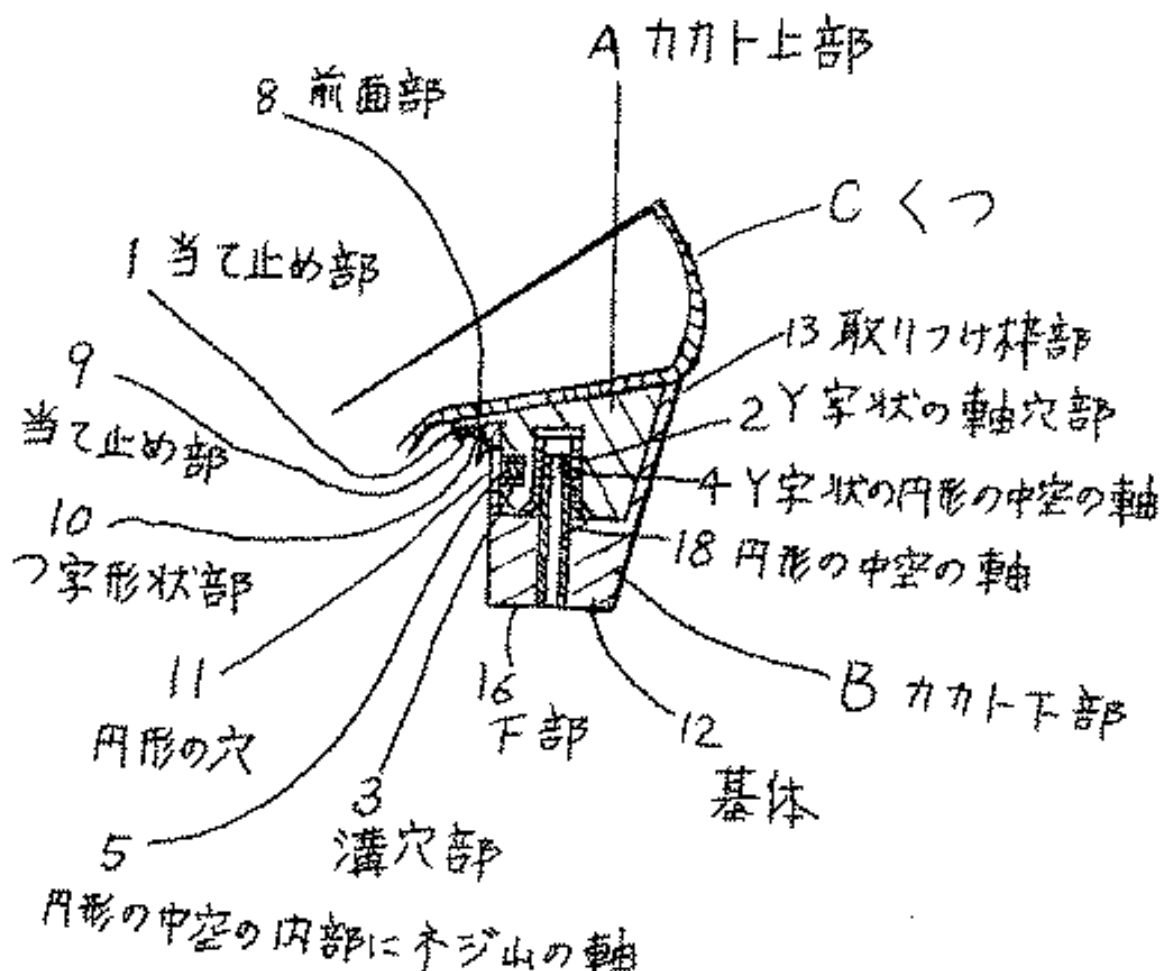
Family 309/432 - FAMPAT - ©Questel

Title

(JP2005261884)

Device for attaching heel lower part to heel upper part by separating heel part of shoe into heel upper part and heel lower part

Images



Publication data including kind & date

JP2005261884

A 2005-09-29 JP2005261884



Abstract

(JP2005261884)

PROBLEM TO BE SOLVED: To form the outer periphery of the surface part of a heel upper part to have the same shape, to fix the heel upper part to the position of the heel part of shoes of the same height, to form heel lower parts each consisting of a fitting frame part formed so as to mount an inner peripheral surface part and a substrate to have the same height, to form the outer periphery of the surface part into many different shapes, and to use the heel lower parts mounted to the heel upper part.

SOLUTION: The heel upper part A is inverse U-shaped projecting outward from the tip of the upper part 7 of a front surface part 8, and is provided with an abutting and fixing part 1, a slot part 3 in the center of the front surface part 8, and a Y-shaped shaft hole part 2 of 25 mm above the center of a lower part. In the heel lower part B, a tip except for right and left 2 to 3 mm part at the tip of the upper part 15 of the front surface part 17 is lowered by 3 mm, both of the right and left sides are made to project outward without changing the right and left sides, and the other part are inverse U-shaped. The heel lower part is provided with: an abutting and fixing part 9 on its upper side; a round U-shaped part 10 on its lower part; a substrate 12 having a fitting frame part 13 provided with a circular hole 11 in the center of the front surface part 17; and a circular shaft hole part 14 from the center of the upper part of the substrate 12 to the center of a lower part 16.

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Inventors

Hiroshi Kanemoto

Tomoo Umeya

Yuki Miyazaki

Latest standardized assignees - inventors removed

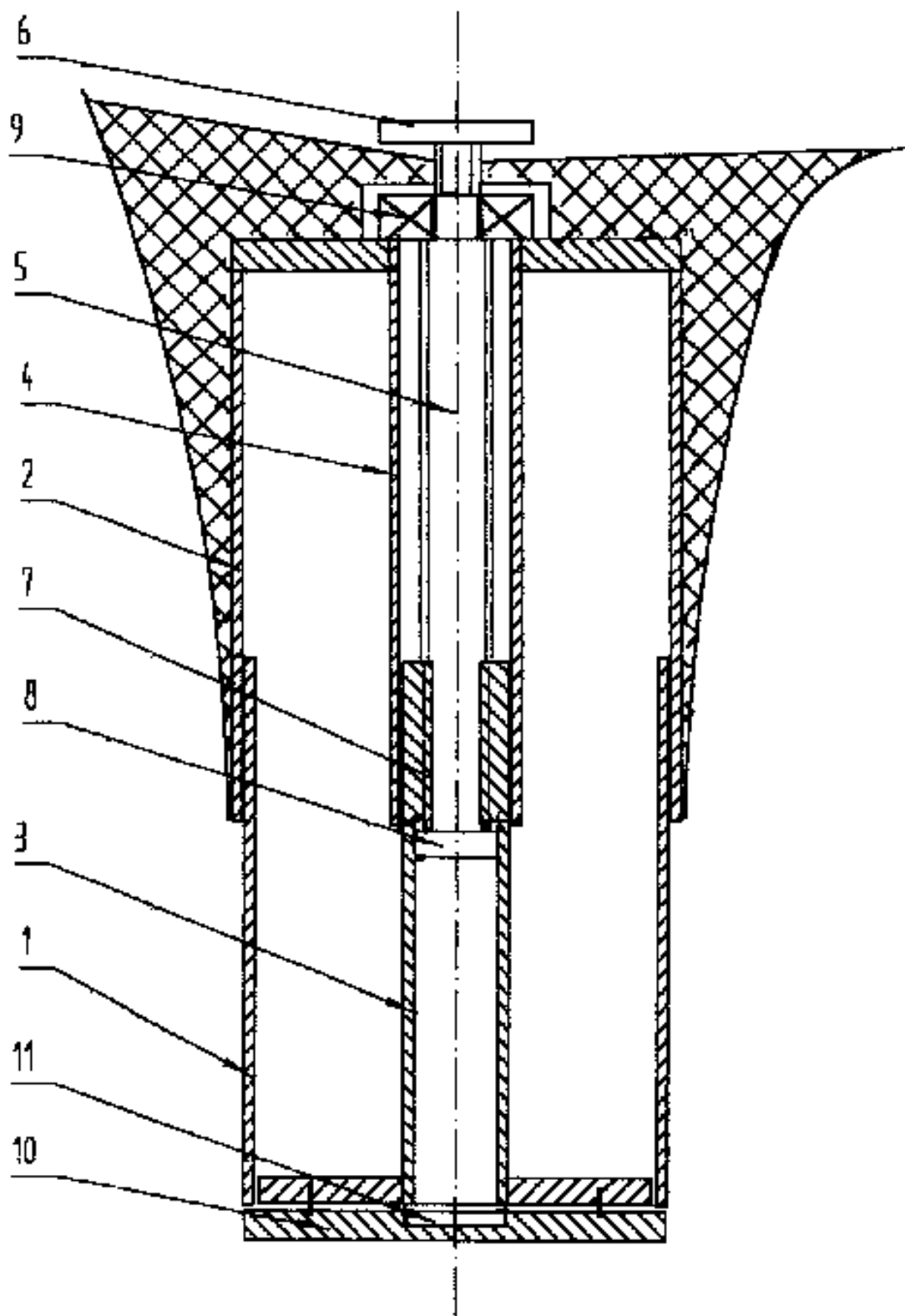
KIN SHUUN

Family 310/432 - FAMPAT - ©Questel

Title

(CN2655694U)

Height-adjusting heel

Images

Publication data including kind & date

[CN2655694](#)

Y

2004-11-17

CN2655694U

**Abstract**

(CN2655694)

The utility model discloses a heel with the height adjustable, comprising a lower heel, an upper heel sleeved on the lower heel which is slide matched with the lower heel, a lower square pipe fixed on the lower heel with an inner thread on the upper end, an upper square pipe sleeved outside the lower square pipe which is slide matched with the lower square pipe and is fixed inside the upper heel, an adjusting screw bar sleeved inside the upper and the lower square pipe which is matched with the inner thread inside the lower square pipe used to adjust the lower heel stretching degree, and a knob equipped on one end of the adjusting screw bar, wherein one end where the adjusting screw bar is far from the knob is equipped with a position limiting cap. The adjusting of the utility model heel height is quite convenient, the usage is quite reliable, and the adjusting is quite convenient when blind adjusting. Since all assemblies of the utility model is hidden, the appearance has strong integration and is quite beautiful.

Inventors

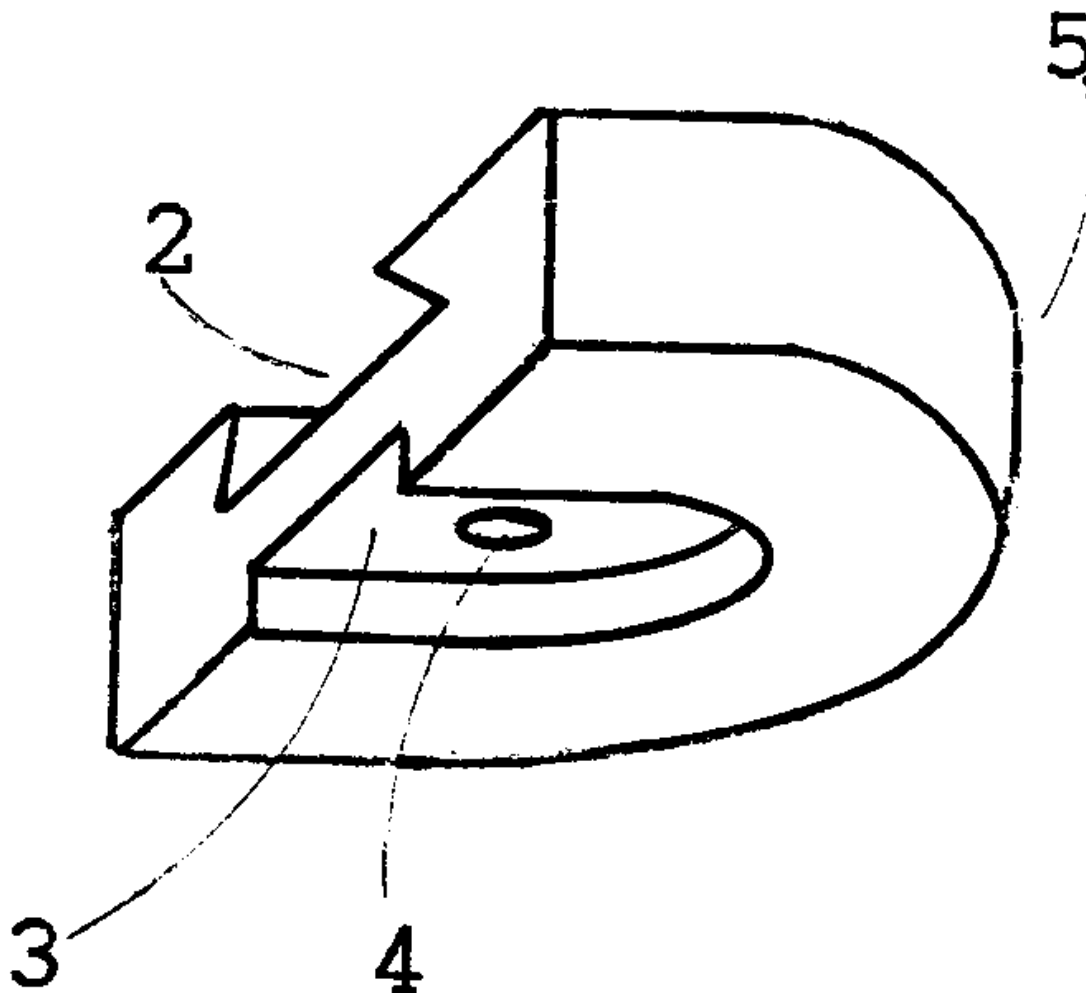
SUN ZONGGUI

Family 311/432 - FAMPAT - ©Questel

Title

(KR200299662U)

Shoe of ginger device

Images**Publication data including kind & date**[KR200299662](#)

Y1 2003-01-06

KR200299662U

**Abstract**

(KR200299662)

This invention relates to a heel of the shoe is worn by the user in a simple manner to fit the new curved ground the device.

Inventors

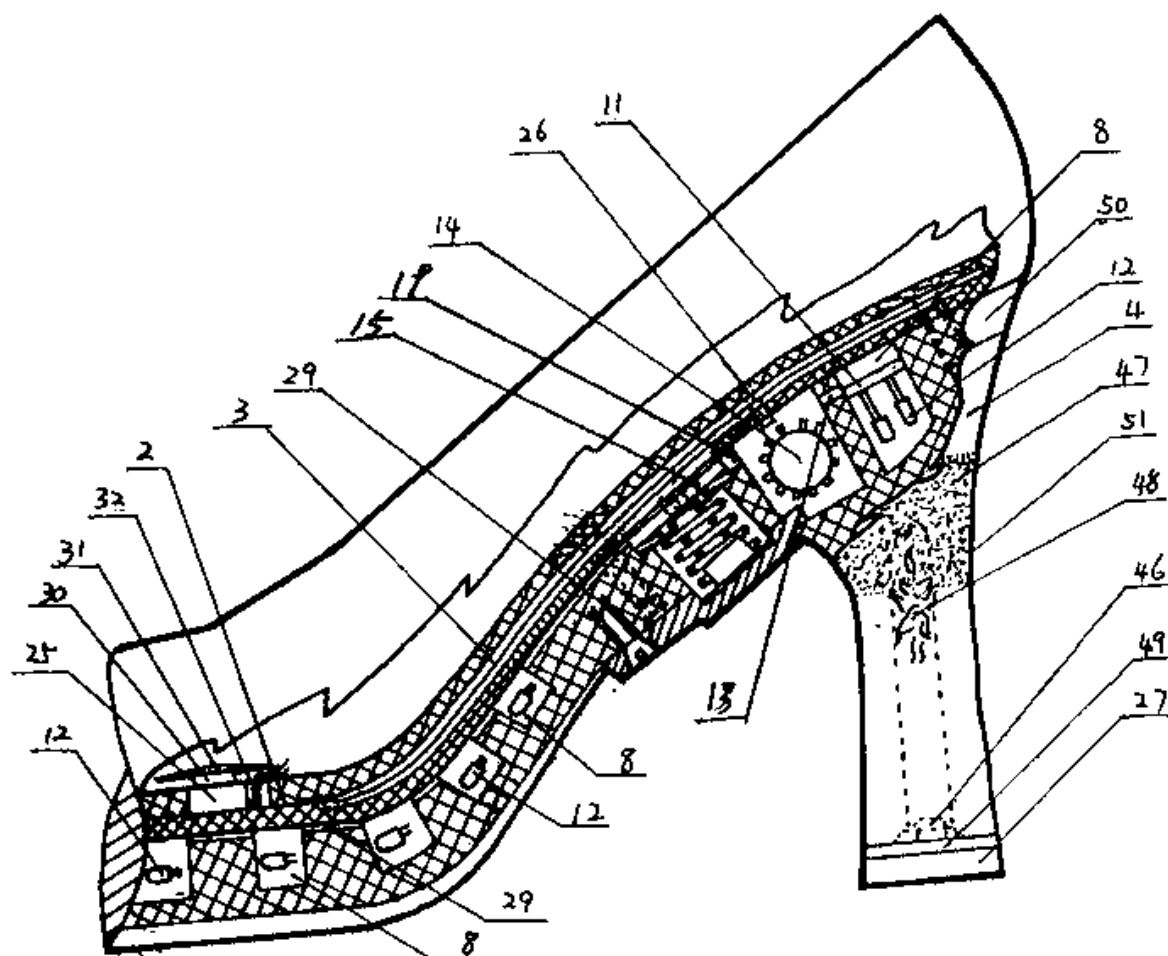
LEE, HAN SOO

Family 312/432 - FAMPAT - ©Questel

Title

(CN2562614U)

Light emitting shoe using light emitting tube to control multiple gear color changing

Images**Publication data including kind & date**[CN2562614](#)

Y

2003-07-30

CN2562614U

**Abstract**

(CN2562614)

A light-emitting shoe capable of changing color under control of a light-emitting tube multi-step controller is provided. The light-emitting shoe is characteristic in that an concave-convex heel body is made of transparent plastic, a device cavity, a battery cavity with frosted inner surface, a switch cavity and various decorative reflective articles are arranged in the heel body, and a concave-convex body capable of transmitting, refracting and reflecting light and embedded with light-reflective articles are arranged outside the heel body. By adopting high-luminance multi-color light-emitting tube multistep control circulation block, and combination of slow light-emitting or normally-opened switch with foot-operated switch, monochromatic light with strong color three-dimensional sensation is emitted along with foot step. A support sole is connected with the concave-convex heel conveniently via a screw bolt for upper press plate, and the battery cover plate can be arranged outside the shoe or inside the shoe via a Y-shaped hook.

Inventors

LI QINGZENG

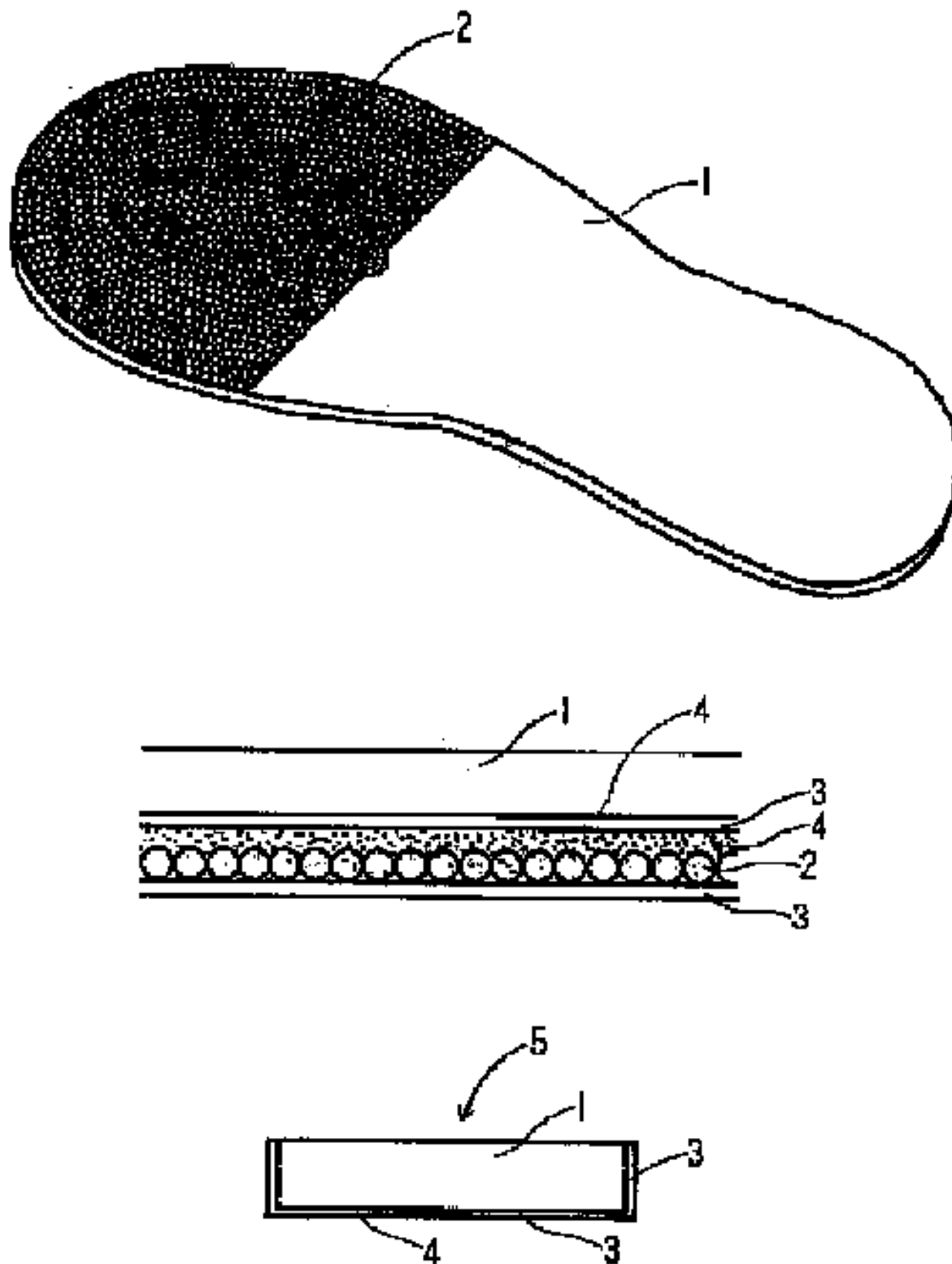
Family 313/432 - FAMPAT - ©Questel

Title

(JP2000342303)

Leg and loin strengthening shoe weight

Images



Publication data including kind & date

[JP2000342303](#)

A

2000-12-12

JP2000342303



Abstract

(JP2000342303)

PROBLEM TO BE SOLVED: To unconsciously train legs and loins in ordinary life by using few types of inner mats in different layers or flat boxed weights for a heel.

SOLUTION: A sports shoe uses an inner mat consisting of a cushion member 1 and a flexible sheet member 3, an inner mat consisting of a cushion member, a less amount of granular metal weight 2 and a flexible sheet member or an inner mat

consisting of a cushion member 1, a greater amount granular metal weight 2 and a flexible sheet member, these being replaceable depending on leg and loin training method. A walking shoe uses a flat boxed weight 5 consisting of a cushion member and a flexible sheet member 3, a flat boxed weight 5 consisting of a cushion member 1, a less amount of granular metal weight 2 and a flexible sheet member 3, or a flat boxed weight 5 consisting of a cushion member 1, a greater amount of granular metal weight 2 and a flexible sheet member 3, these being replaceable depending on leg and loin training methods.

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Inventors

HORIMIZU SHIGEO

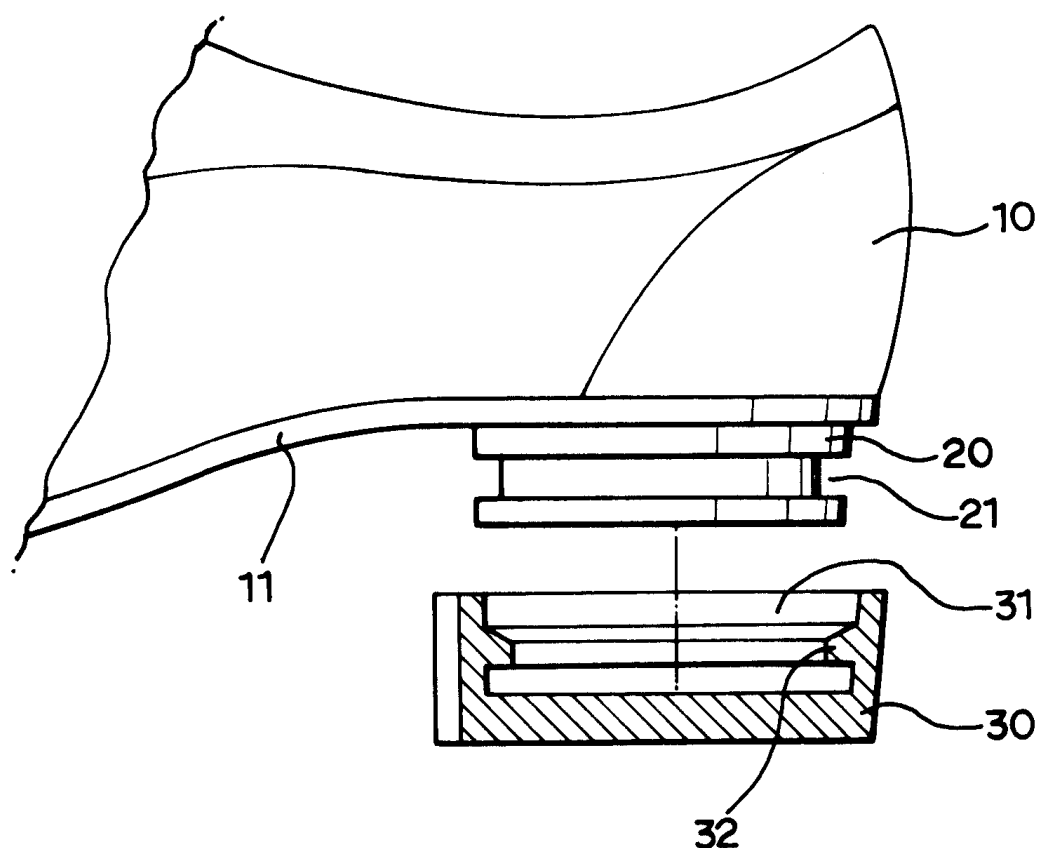
Family 314/432 - FAMPAT - ©Questel

Title

(KR100283925)

Separable heel of shoe

Images



Publication data including kind & date

KR100283925	B1	2001-03-02	KR100283925
KR19980087848	A	1998-12-05	KR19980087848



Abstract

(KR19980087848)

PURPOSE: A separable heel of a shoe is provided to improve the convenience of use of the shoe by making change and repair work of the heel be easily performed without any adhesive or fastener, thus increasing the merchantability thereof.

CONSTITUTION: The shoe comprises: a body(10) formed by coupling plural leather pieces and an out sole(11) at a desired position; a stay(20) in which the upper end is firmly fixed to the bottom surface of the rear end of the body and formed with a fastening groove(21) of a predetermined depth and width at the middle part of the outer surface; and a

heel(30) formed with a receiving groove(31) capable of receiving the stay and formed with a fastening boss(32) along the inner periphery thereof.

© KIPO 2002

Inventors

KIM, MAN JONG

Family 315/432 - FAMPAT - ©Questel

Title

(JP2508557Y)

Adhesive Shoe Arsenide FeCoPd-rukaba-

Publication data including kind & date

JP2508557	Y2	1996-08-28	JP2508557Y
JP6079310	U	1994-11-08	JP06079310U



Abstract

(JP6079310)

[Object] and prevents a hollow sliding Caged ballroom dancing practical. Feeling Gagoshima floor surface immersed in a comfortable dance Caged practical to be. A set of completed easily falling off of the cover so that there is no concern. PURPOSE: The heel of the shoe and the lower end plane, and bending the outer peripheral surface of the lower end portion bent upward and a plurality of fin-like portion of the adhesion portion and a heel are provided. Sawfish-shaped portion extended to the right or left one, so as to extend in substantially a strip shape and one of the right and. This 1 body to the flexible sheet and the double-side adhesive tape and the coating or adhesive to protect the adhesive attached to the lower end of the heel the shoe heel cover FeCoPd shoe.

Inventors

JINEN ISAO

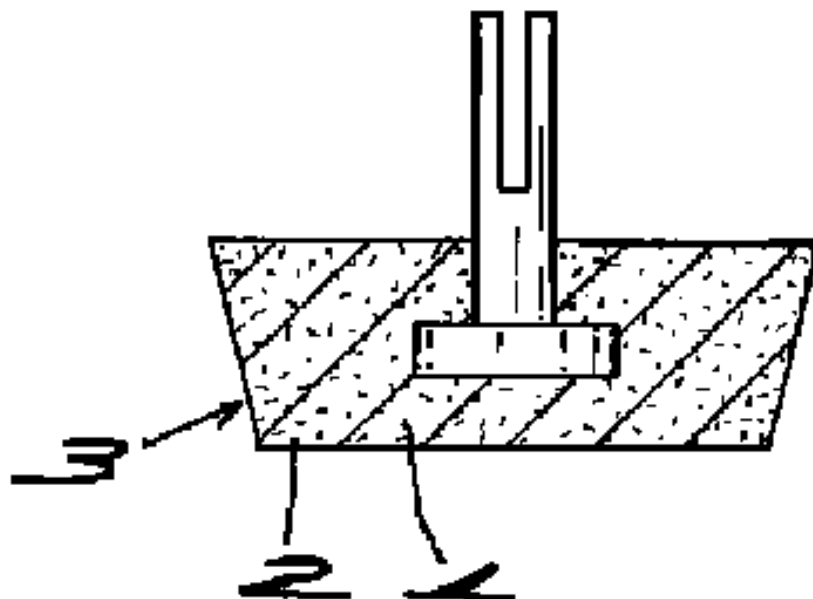
Family 316/432 - FAMPAT - ©Questel

Title

(JP06030810)

Shoe lift

Images

**Publication data including kind & date**

JP2599332	B2	1997-04-09	JP2599332
JP06030810	A	1994-02-08	JP06030810

**Abstract**

(JP06030810)

PURPOSE:To enhance the tensile strength, the tearing strength and the resilience, by mixing ultra-fine carbon fibers into urethane resin so as to form a composite material which does not spoil molding conditions of the urethane resin, thereby to effectively use the characteristics of the urethane resin and the characteristic function of the carbon fibers.

CONSTITUTION:General-purpose carbon fibers made of a coaltar pitch material is added to and mixed with a thermoplastic polyurethane elastomer material so as to form a composite material with which the manufacture of a lift is

tested. That is, a fine carbon fiber material having a micron unit is cut and pulverized into dimensions less than 0.9 microns, and is then mixed into the thermoplastic polyurethane elastomer material which is then molded so as to form the lift 3. The mixture of the urethane resin and the carbon fibers remarkably enhances the conductivity, the corrosion resistance and the wear resistance of the carbon fibers. Further, the wear resistance thereof is several times as high as a commercially available reinforced lift, and the resiliency thereof is also high while the shock resistance and the antislip ability thereof are also excellent.

Inventors

HIRAI GIICHI

Latest standardized assignees - inventors removed

HIRO INTERNATIONAL

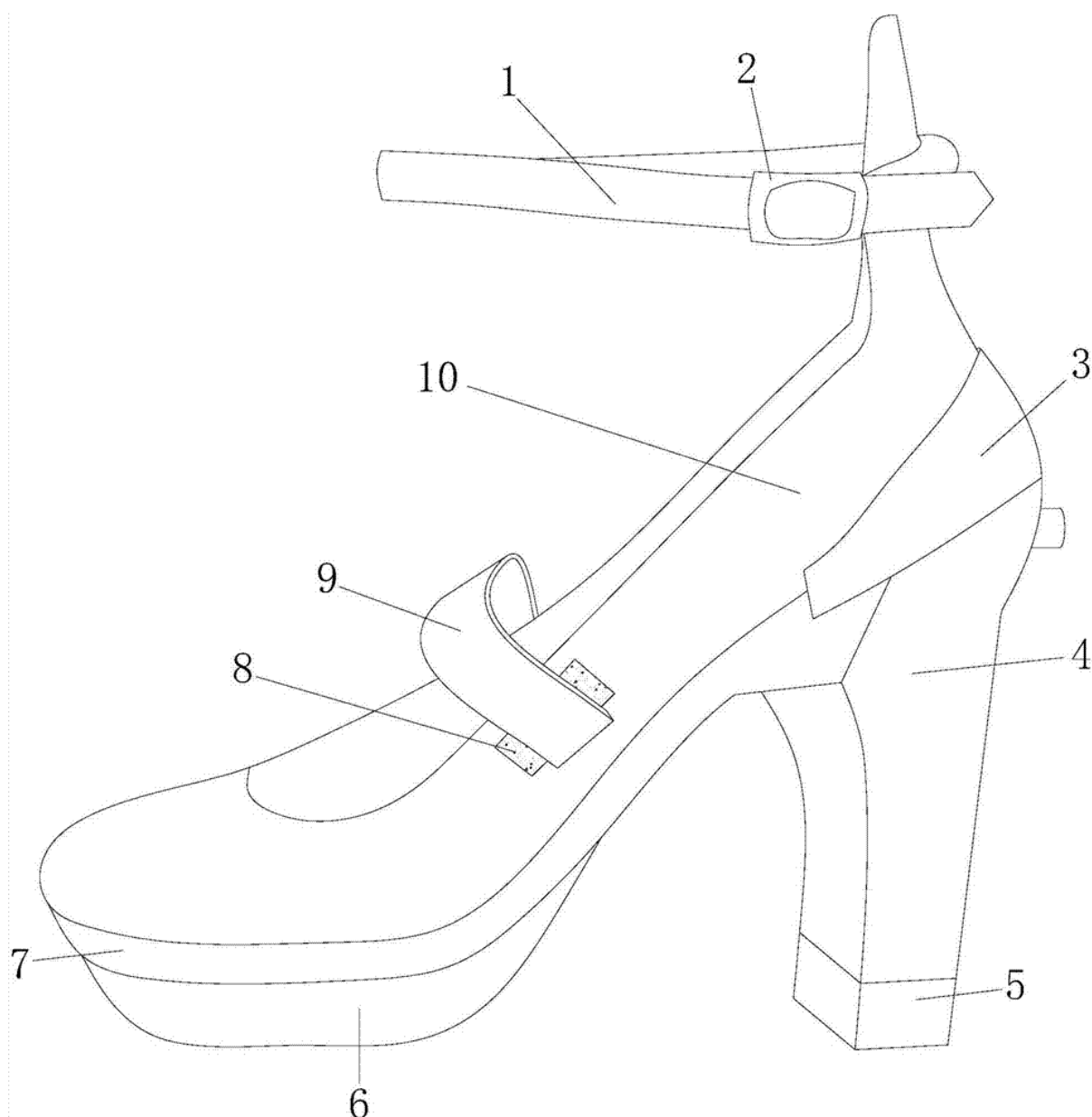
KAY & WY

Family 317/432 - FAMPAT - ©Questel

Title

(CN208129578U)

Interchangeable heel travelling comfort high -heeled shoes

Images**Publication data including kind & date**[CN208129578](#)

U

2018-11-23

CN208129578U



Abstract

(CN208129578)

The utility model discloses an interchangeable heel travelling comfort high -heeled shoes, its structure includes the foot clittellum, adjusts latch closure piece, heel, preceding sole, shoes insole, nylon velvet ribbon, vamp, and the preceding terminal surface of foot clittellum is equipped with adjusts the latch closure piece, and the heel includes baffle, fixed block, slurcam, left spring, deviceprotecting sheathing, screw, lower briquetting, catch bar, return spring, extrusion piece, the heel body, and the right -hand member facial features that the left end face and the protection of baffle were glued is welded, the utility model relates to an interchangeable heel travelling comfort high -heeled shoes, the structural heel that is equipped with, through press the catch bar remove left will extrude the piece remove left, the extrusion piece moves down the slurcam, the fixed block just also moves down, decontrol the catch bar after shoes insole embedding, to extrude piece removal right through return spring recovers, the slurcam is just upwards promoted by left spring and right spring after losing pressure, the fixed block is the fixed shoes insole of rebound just, be convenient for the dismounting heel according to the change of oneself's sensation, avoid carrying the inconvenient condition.

Inventors

GENG JIAN

Latest standardized assignees - inventors removed

GUANGZHOU QIAOWANI FOOTWEAR INDUSTRY

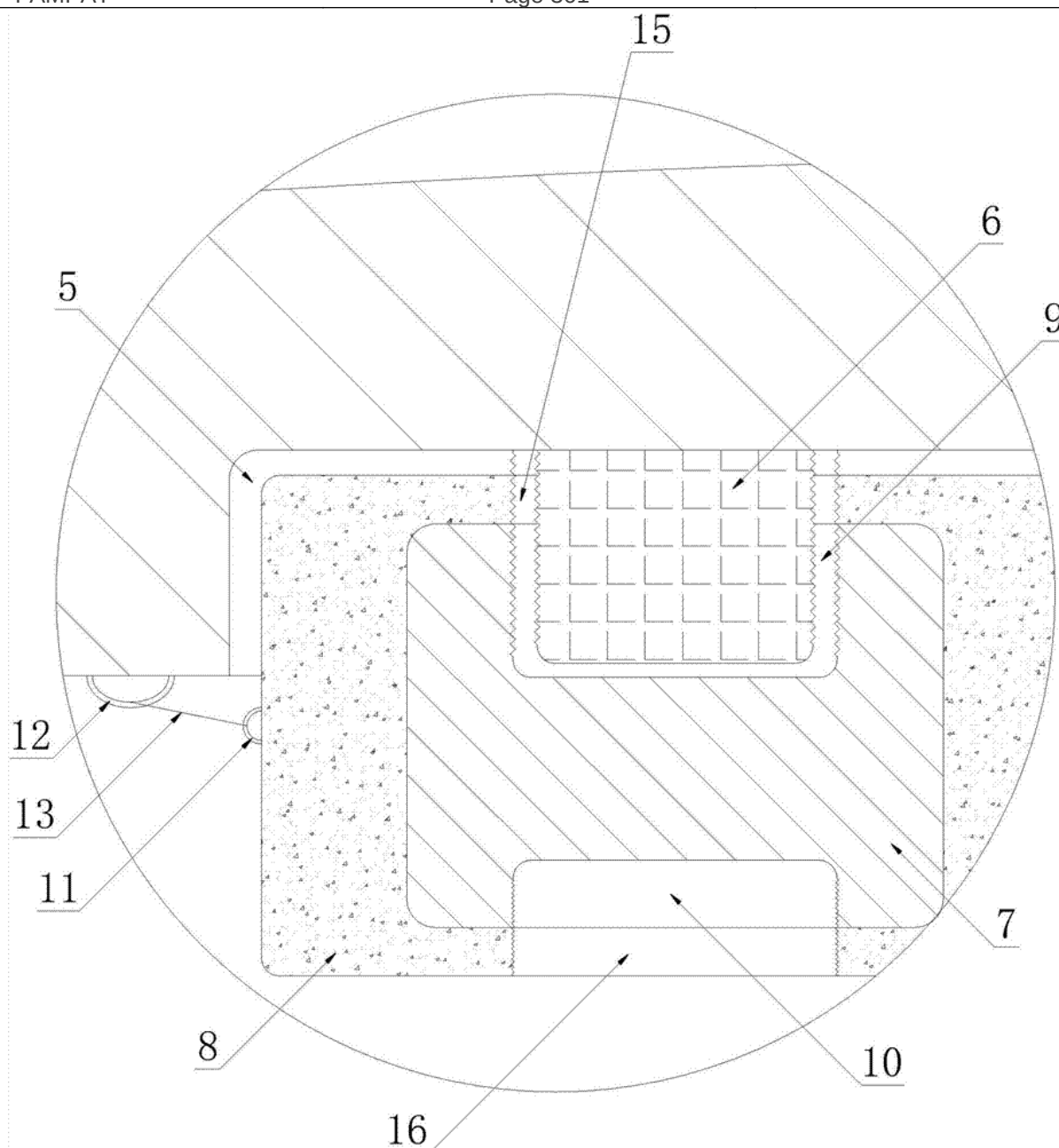
Family 318/432 - FAMPAT - ©Questel

Title

(CN208002223U)

But height -adjusting's anti -skidding outdoor shoes

Images

**Publication data including kind & date**

CN208002223

U

2018-10-26

CN208002223U

**Abstract**

(CN208002223)

The utility model provides a but height -adjusting's anti -skidding outdoor shoes, the fixed vamp that sets up on the sole, the fixed recess that sets up of lower table that sole heel divides, the recess internal fixation sets up the screw thread post, the one end setting and the screw thread post matched with thread groove A of metal column, the other end setting and the screw thread post matchedwith thread groove B of metal column, thread groove A's the degree of depth is greater than thread groove B's the degree of depth, the surface cladding rubber buffer layer of metal column, the metalcolumn passes through thread groove A or thread groove B fixed connection screw thread post, evenly distributed has fixation with steel wire ring A correspond the middle part circumference of metal column lateral part on rubber buffer layer on, the lower fixed surface that heel divides sets up fixation with steel wire ring B, fixation with steel wire ring A is connected to wire rope's one end bind, fixation with steel wire ring B is connected to wire rope's other end bind. The utility model discloses the structural feature that utilizes the screw thread to have the fastness ability can make things convenient for the use of the outdoor shoes of firm regulation high, reaches better result of use.

Inventors

HUANG FANG

Latest standardized assignees - inventors removed

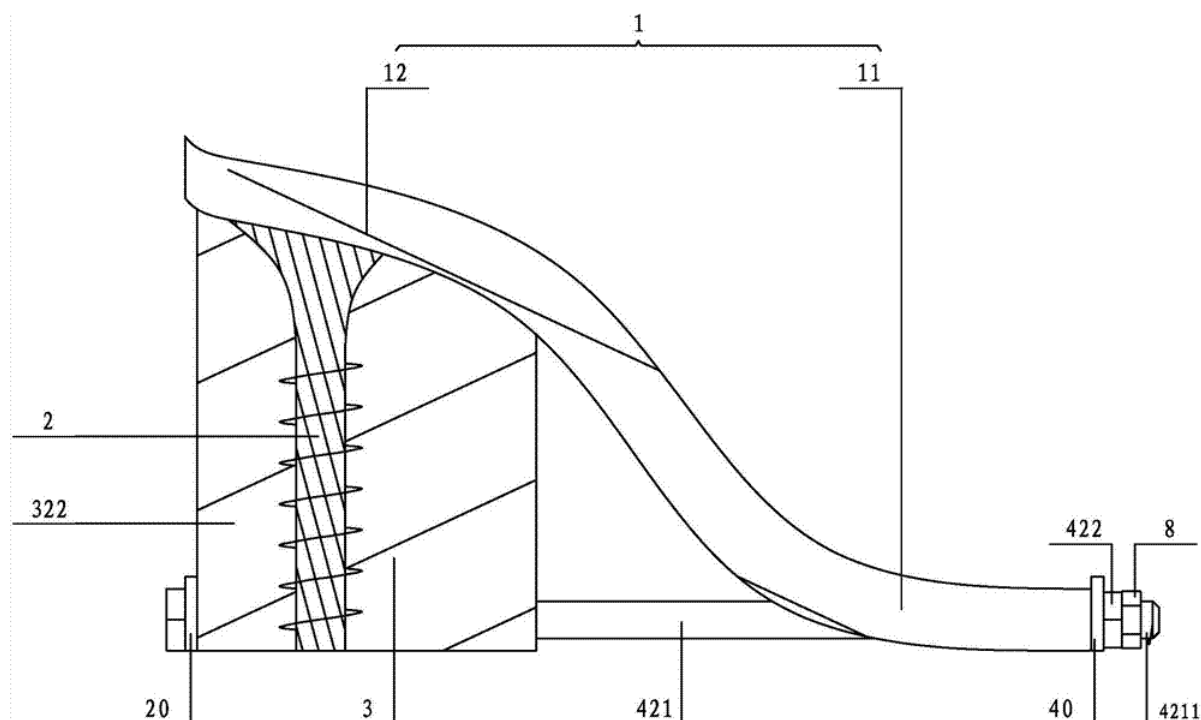
GUANGZHOU SONGLIAN FOOTWEAR

Family 319/432 - FAMPAT - ©Questel

Title

(CN207428543U)

Novel at bottom of changeable high -heeled shoes of heel

Images**Publication data including kind & date**[CN207428543](#)

U

2018-06-01

CN207428543U

**Abstract**

(CN207428543)

The utility model provides a novel at bottom of changeable high -heeled shoes of heel, including sole and high -heeled shoes heel, the high -heeled shoes heel is connected on the sole, it improves the part and lies in: still include the fixed knot structure with fixed slipsole of being in the same place of high -heeled shoes heel and fixed slipsole, after adopting above - mentioned technical scheme, the first passageway of its high -heeled shoes heel screw in, the upper surface of slipsole support tightly in the lower surface of sole, and high -heeled shoes heel and slipsole link together, first bolt passes the second channel, and in the screw in four -channel, first nut is screwed with a nose and is in the same place, and the second bolt passes the third passageway, and in the screw in five -way was said, the second nut was screwed with the 2nd nose and is in the same place, and the slipsole is in the same place with high -heel sole is fixed, becomes at the bottom of the wedge heel, unscrew first nut and second nut take out first bolt and second bolt to slipsole and the high -heeled shoes unscrewed are followed, alright lift the slipsole off, become at the bottom of the high -heeled shoes, compared with the prior art, its simple structure, low in manufacturing cost, practicality are strong.

Inventors

SHI WENSHI

Latest standardized assignees - inventors removed

FUJIAN ZHIMING SHOE INDUSTRY

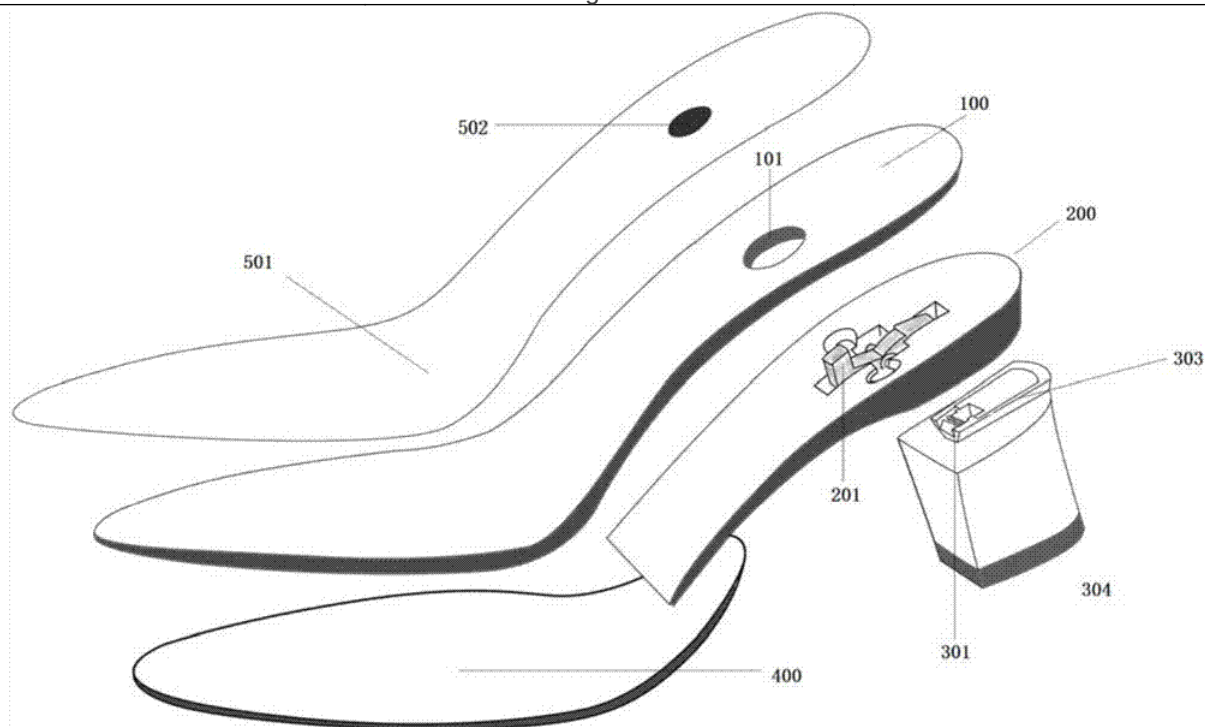
Family 320/432 - FAMPAT - ©Questel

Title

(CN207220297U)

Interchangeable is with high -heeled shoes

Images

**Publication data including kind & date**[CN207220297](#)

U

2018-04-13

CN207220297U

**Abstract**

(CN207220297)

The utility model relates to an interchangeable is with high -heeled shoes, including the interior middle base plate of shoes, shoes support subassembly, heel subassembly, half sole film, the upper surface of middle base plate and shoes support subassembly bonds in the shoes, and shoes hold in the palm the lower surface front portion of subassembly and the rear portion bonding of half sole film upper surface, and anterior and the interior middle base plate of shoes of half sole film upper surface bond, and shoes support subassembly is connected with the detachable mode with the heel subassembly. This interchangeable is with high -heeled shoes can solve hardness, the set -back of sole, the problem of comfort level.

Inventors

CENG NINGJIANG

Latest standardized assignees - inventors removed

GUANGZHOU SHANSHANGLYU CLOTHING

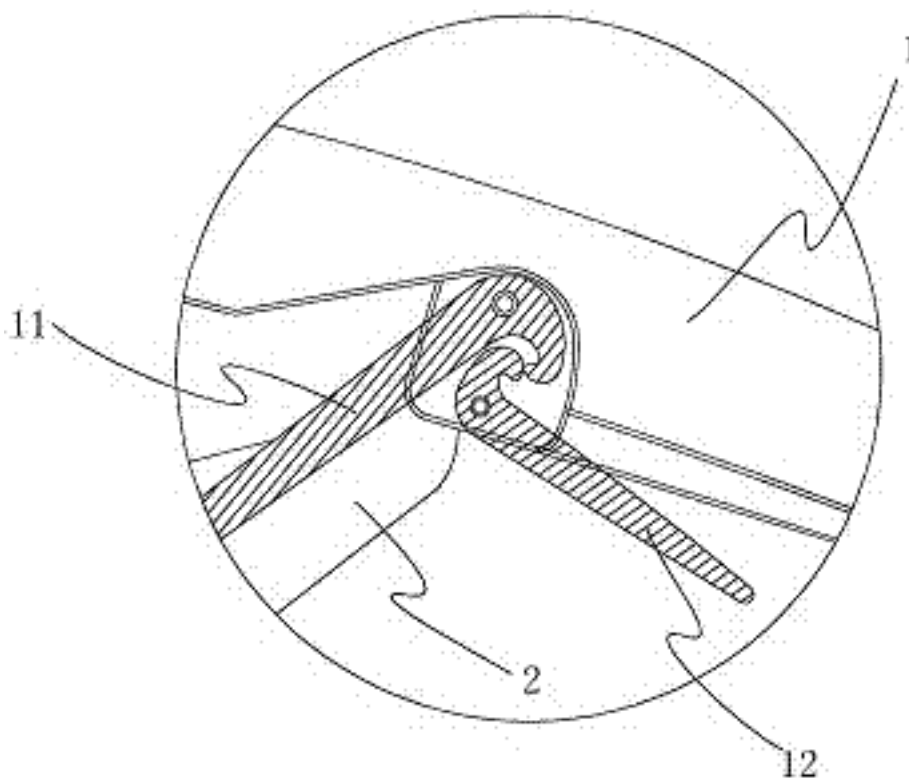
Family 321/432 - FAMPAT - ©Questel

Title

(CN206586483U)

Shoe with replaceable heel

Images

**Publication data including kind & date**

CN206586483

U

2017-10-27

CN206586483U

**Abstract**

(CN206586483)

The utility model relates to a shoes provide an ability and combine the heel of a plurality of height, shape on the pair shoes, satisfy the shoe with replaceable heel of various occasion demand, include the sole, locate vamp and heel on the sole, the sole lower surface is equipped with locking device, locking device includes heel mounting and hasp spare, but the link of heel mounting is through a hinge connection axle and sole swivelling joint, but the link of hasp spare is through the 2nd hinge connection axle and sole swivelling joint, the 2nd hinge connection position of axle is in the below of a hinge connection axle, the epaxial still cover of the 2nd hinge connection is equipped with torque spring, torque spring's one end and sole are connected, the other end is connected with hasp spare, it is connected to realize the meshing through the hook structure between the link of heel mounting and the link of hasp spare, has seted up on the heel and has supplied heel mounting male insertion groove, be equipped with buckle spare with the sole on the connection face that the heel is used for being connected, be equipped with on the sole and buckle spare complex draw -in groove.

Inventors

ZHUANG WEIZHI

ZHENG RONGDA

DING SIEN

ZHENG YIWEN

ZHUANG HONGBIN

Latest standardized assignees - inventors removed

MAOTAI SOLES

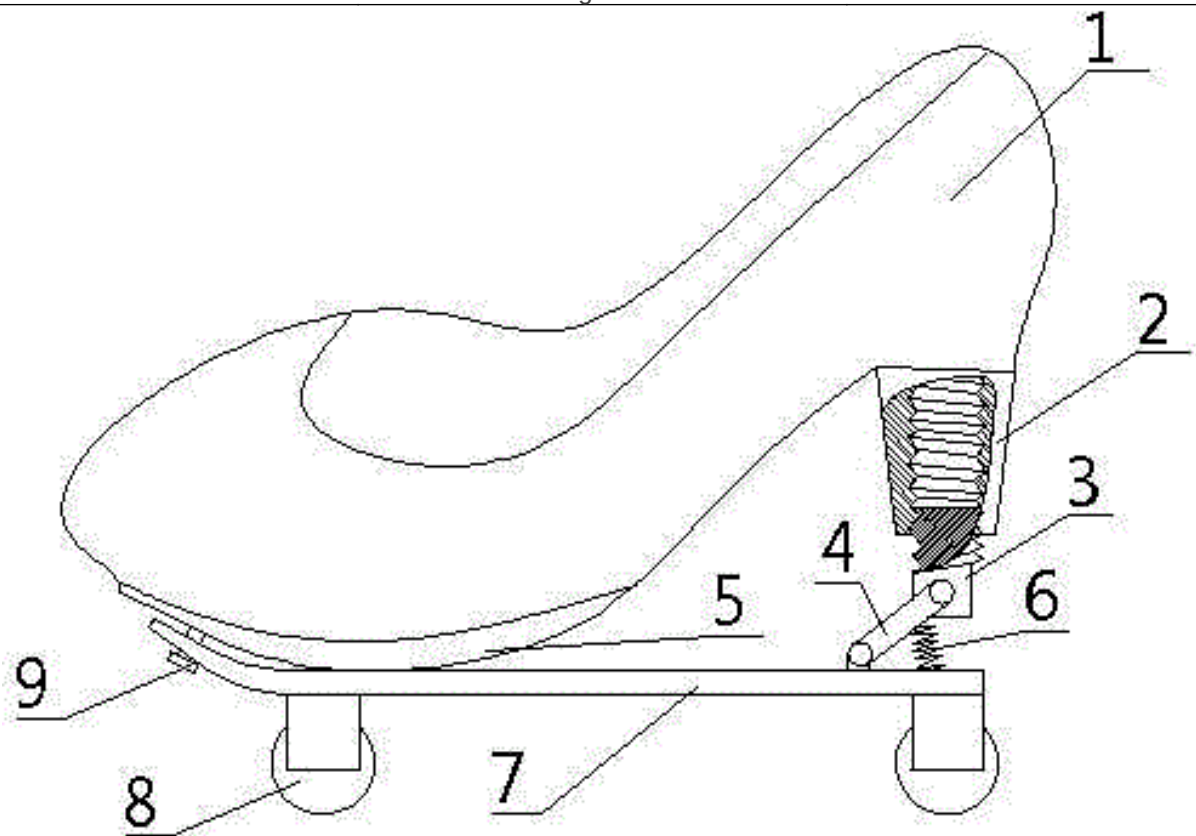
Family 322/432 - FAMPAT - ©Questel

Title

(CN106136429)

High-heeled shoes

Images

**Publication data including kind & date**

CN106136429

A 2016-11-23 CN106136429

**Abstract**

(CN106136429)

The invention belongs to the field of living articles, and particularly relates to high-heeled shoes. Each high-heeled shoe is characterized by comprising a shoe body, a toe plate, a spiral piece and a heel, wherein the toe plate is fixedly mounted at a position, which is in contact with the ground, of the front part of the shoe body; the spiral piece is mounted at the lower part of the rear end of the shoe body; the heel is of a cylindrical structure; the outer surface of the upper part of the heel is of a threaded structure; the lower end of the heel is hinged to a connection rod; the other end of the connection rod is hinged to the upper surface of a wheel plate; a supporting spring is fixed at the middle part of the connection rod; the other end of the supporting spring is fixed on the wheel plate; four wheels are mounted on the lower surface of the wheel plate; a screw is arranged at the upwarp part of the front end of the wheel plate; a screw hole is formed in the corresponding toe plate part. The high-heeled shoes have the benefits that the shoe body and the heel of each high-heeled shoe are of a separated structure, so that the shoe can be either used as a common high-heeled shoe when the heel and the wheel plate are removed, or used as a roller skate if necessary to relieve feet, avoid over fatigue of the feet and protect the health of women.

Inventors

ZHANG XIAODONG

GU ZHENTAO

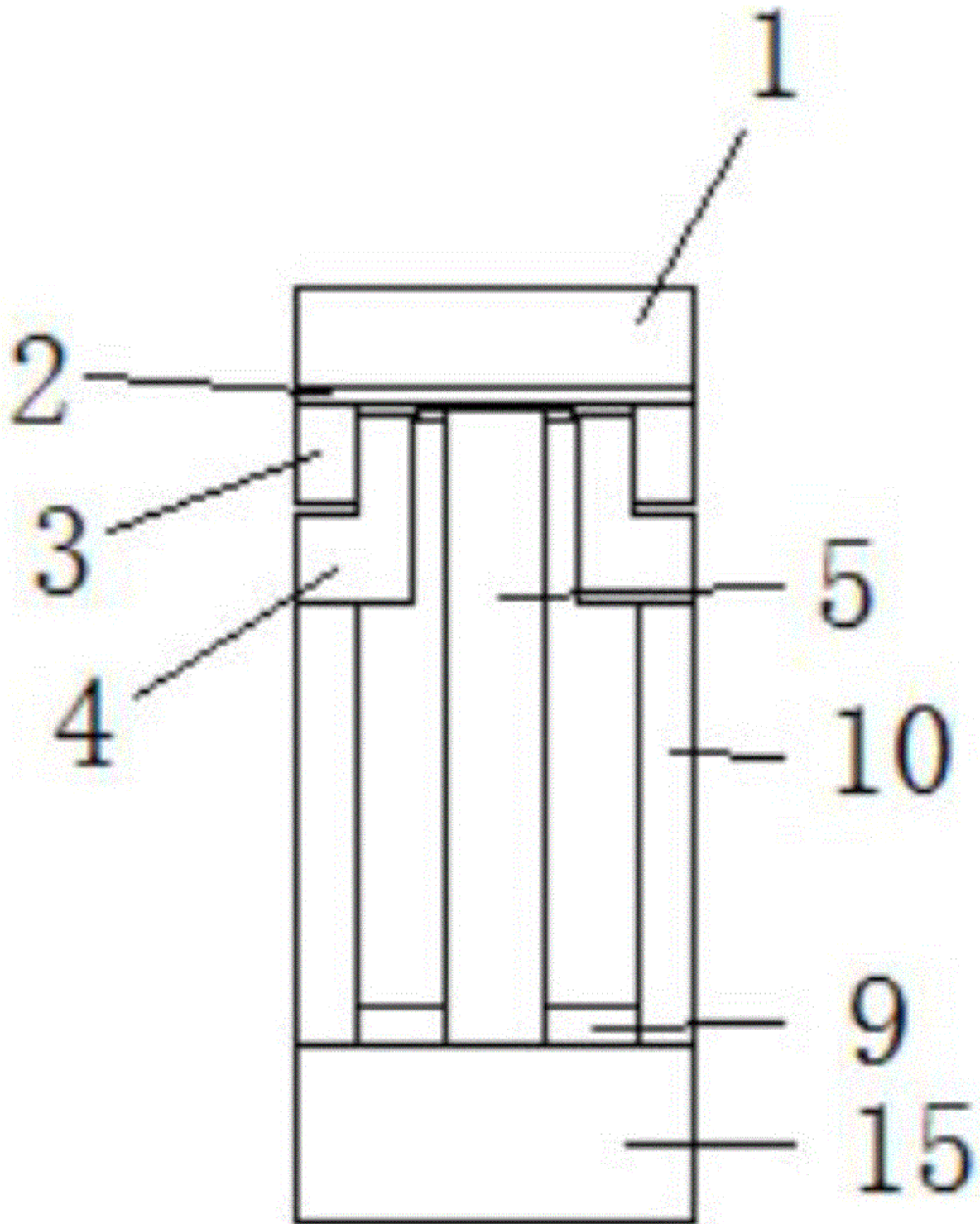
Family 323/432 - FAMPAT - ©Questel

Title

(CN205456482U)

Height adjustable shoe heel

Images



Publication data including kind & date

[CN205456482](#)

U 2016-08-17 CN205456482U



Abstract

(CN205456482)

The utility model discloses a height adjustable shoe heel, including the rubber pad, the steel sheet is installed to the bottom of rubber pad, the bottom of steel sheet is connected with first bearing, the inner circle of first bearing is connected with the regulator, the inside of regulator is provided with the threaded rod, the threaded rod evenly is provided with the roller around, and the surface of roller leaves the screw thread, the top and the bottom of roller all are provided with solid fixed ring, the inner wall of regulator is connected to fixed ring's outer lane, the upper portion outer wall of threaded rod leaves outstanding piece, the second bearing is installed to the outer wall lower part of threaded rod, the bottom periphery of regulator is connected with the expansion plate, the internally mounted of expansion plate has the expansion bracket, the connecting block is evenly left to the inside of expansion plate, and the connecting block is connected with the expansion bracket, the inside of expansion bracket is provided with the push -and -pull rod, the one end of push -and -pull rod is

connected with the supporting pole, the outer wall of the inner wall sub-unit connection second bearing of expansion plate, the bottom of threaded rod is connected with the plastic slab.

Inventors

CHEN GUOGUANG

Latest standardized assignees - inventors removed

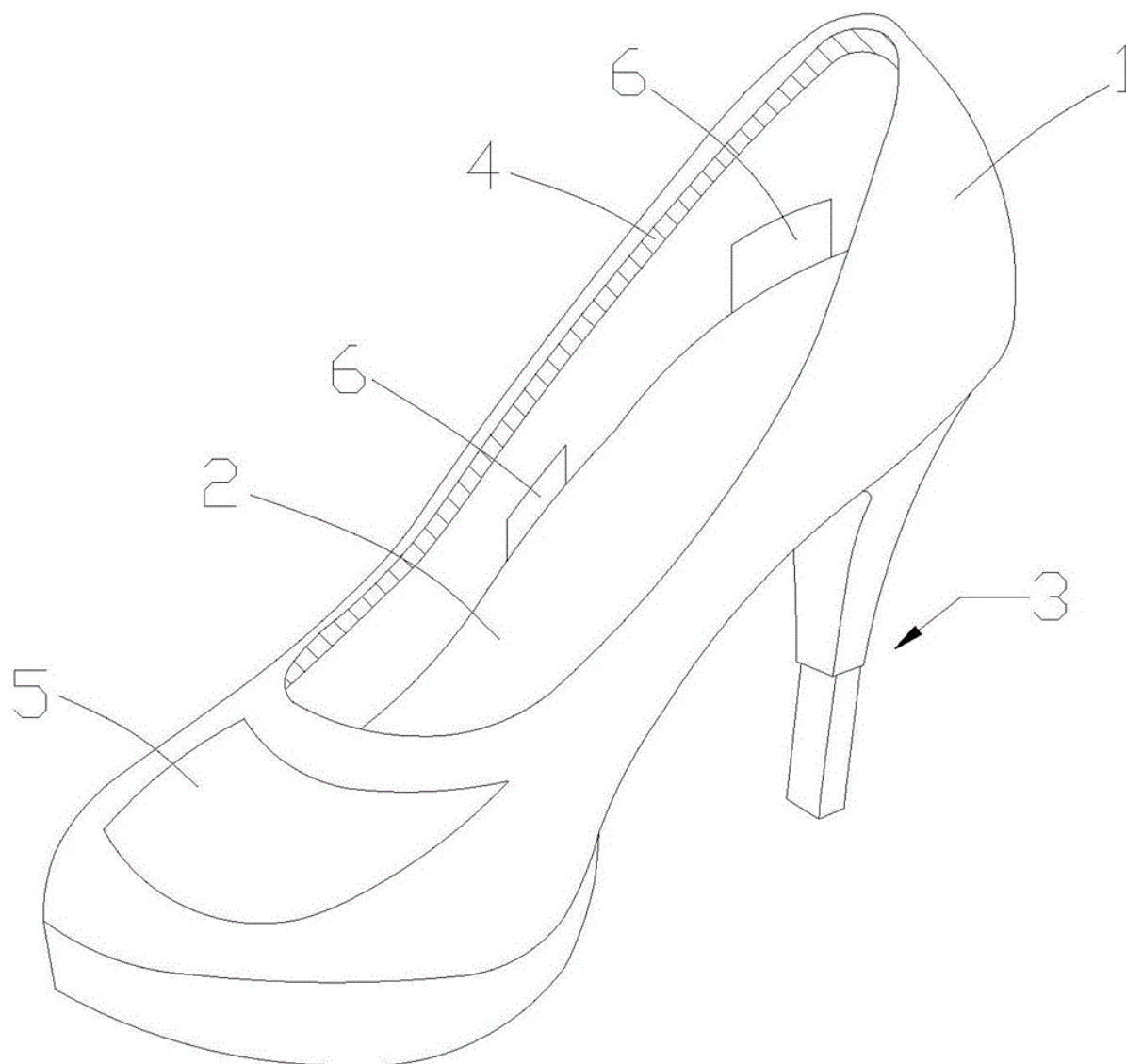
ZHEJIANG KAJIALI SHOES INDUSTRY

Family 324/432 - FAMPAT - ©Questel

Title

(CN205409882U)

Automatic high -heeled shoes of increaseing

Images**Publication data including kind & date**

[CN205409882](#) U 2016-08-03 CN205409882U

**Abstract**

(CN205409882)

The utility model relates to an automatic high -heeled shoes of increaseing, including the spat, sole and heel, be provided with the protection ring on the inward flange of spat, be provided with solar panel on the top surface of spat, be provided with four at least massage tremblers on the medial surface of spat, be provided with a pressure sensor on the bottom surface of sole, the 2nd pressure sensor and the 3rd pressure sensor, the inside of sole is provided with battery and controller, the heel includes the connecting seat, fixed heel and flexible heel, the inside of fixed heel is provided with first spacing hole and the spacing hole of second, flexible heel passes through drive mechanism and connects fixed heel. The

utility model discloses simple structure, the practicality is strong, not only can realize the automatically regulated of the whole length of heel through drive mechanism, but also have the function of massage, can effectively alleviate the fatigue of foot, and solar panel can provide the electric energy in succession simultaneously, has improved the comfort level of high -heeled shoes dresses.

Inventors

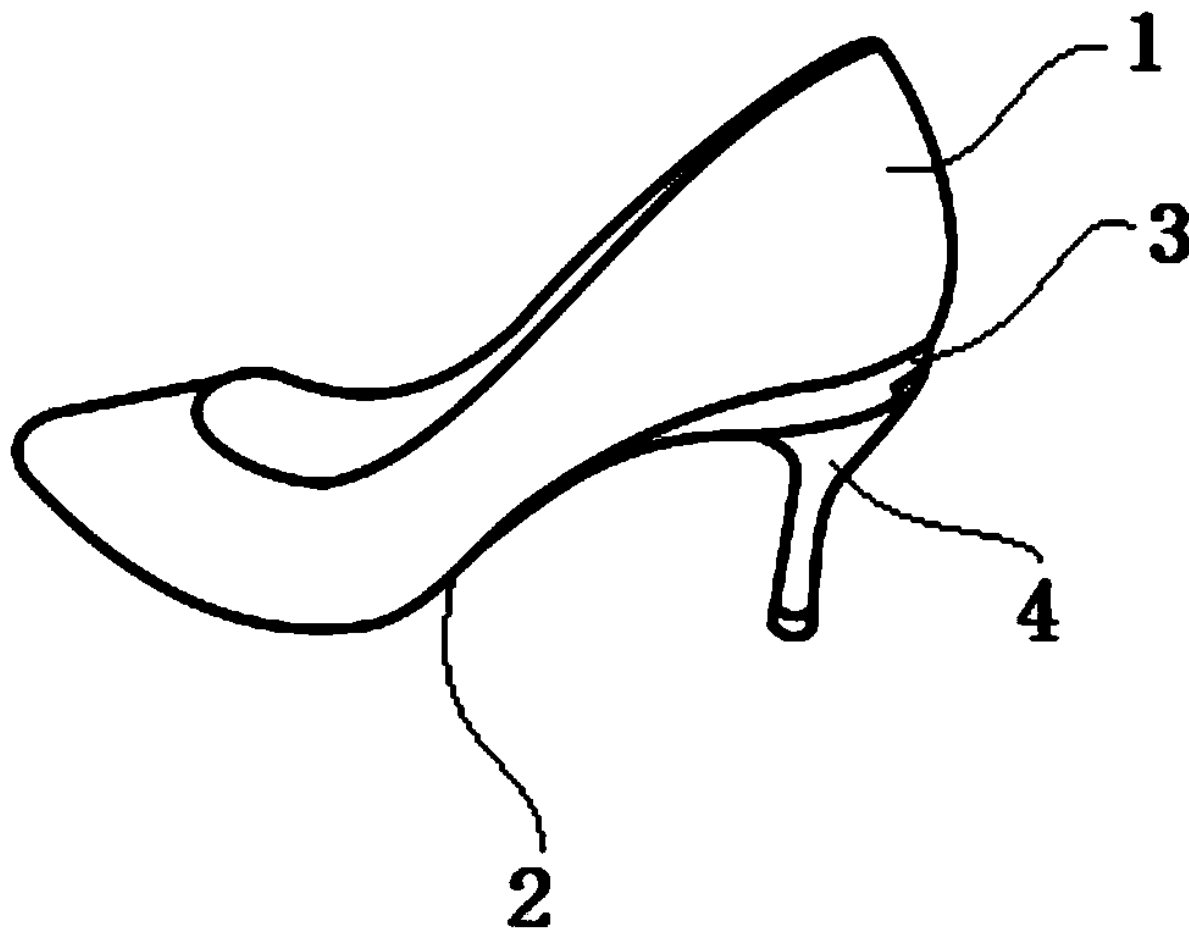
HE YUENI

Family 325/432 - FAMPAT - ©Questel

Title

(CN205180532U)

High -heeled shoes convenient to change heel

Images**Publication data including kind & date**[CN205180532](#)

U

2016-04-27

CN205180532U

**Abstract**

(CN205180532)

The utility model discloses a high -heeled shoes convenient to change heel, including upper of a shoe, sole and heel, upper of a shoe bottom fixed connection sole, the heel is connected to the sole, its characterized in that, the heel includes collection portion and replacement portion, palm shape unanimity behind palm position and shape and the sole is fixed in behind the sole in collection portion installation, the amalgamation joint becomes a complete heel between replacement portion and the collection portion. The utility model discloses a heel comprises collection portion and replacement portion, collection portion and replacement portion become integrative for the amalgamation joint, replacement portion is through pushing, it can realize the installation or dismantle to release the action, the be convenient for change of heel, can replace not co -altitude according to different occasions, different thicknesses, different colours, the heel of different styles, satisfy the user demand that people are different, secondarily, from beautifully seeing, the heel replace the people of being convenient for changed different colour styles into according to own aesthetics heel, wear out own style.

Inventors

LI BAIMING

PANG MINGJIAN

Latest standardized assignees - inventors removed

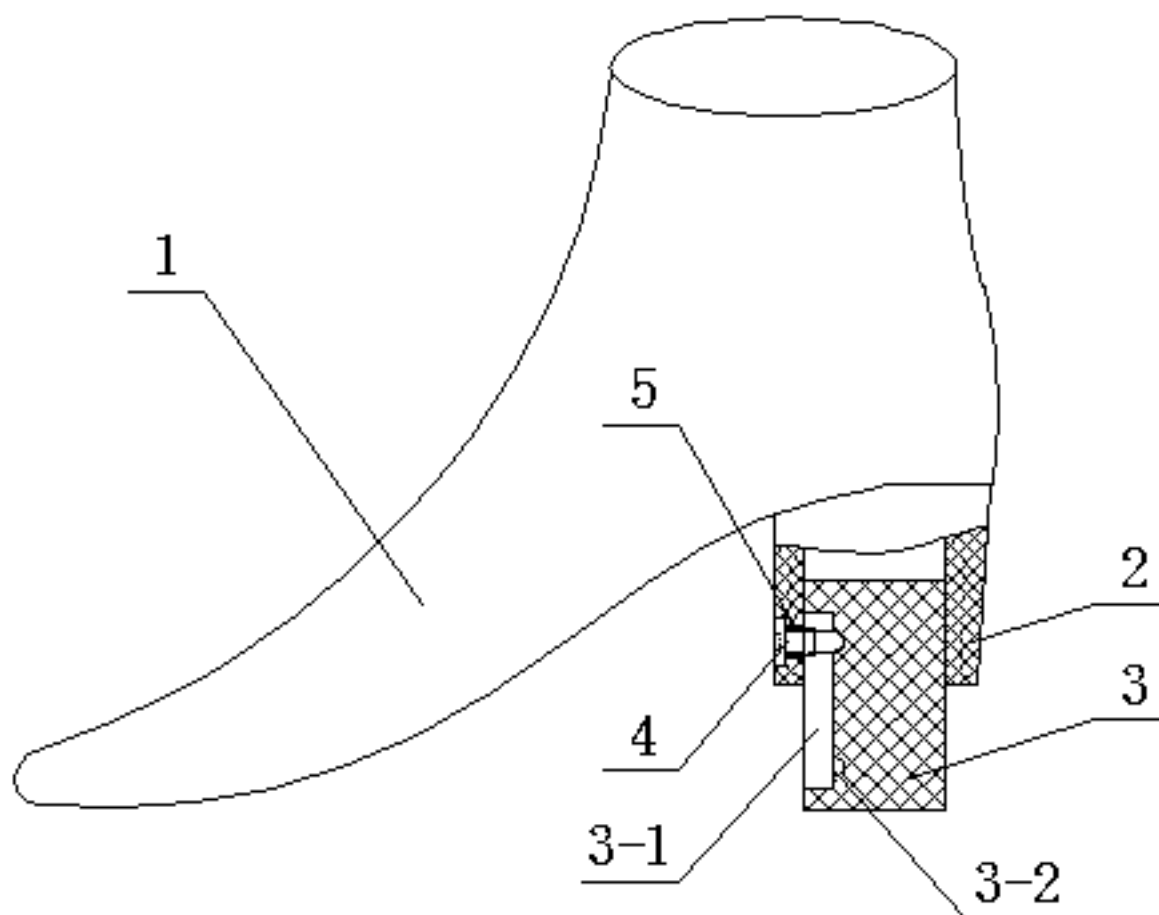
GUANGZHOU YAMI TRADE

Family 326/432 - FAMPAT - ©Questel

Title

(CN204697994U)

Heel mrs telescopic high -heeled shoes

Images**Publication data including kind & date**[CN204697994](#)

U

2015-10-14

CN204697994U

**Abstract**

(CN204697994)

The utility model relates to a heel mrs telescopic high -heeled shoes, technical field is made to the shoes that belong to the daily life articles for use. It comprises the shoes bodies, fixed heel, activity heel and locking set screw etc. And fixed heel rigid coupling is in the back lower place of the shoes body, the inboard of fixed heel an embedded nut is equipped with admittedly, threaded connection has a locking set screw on the embedded nut, is equipped with an activity heel in the hollow structure of fixed heel. The utility model discloses can adjust the height of heel according to the different occasions of people trip wantonly, avoid the longer foot that brings of high -heeled shoes walking distance painful, overcome not only the awkwardness that need wear the occasion of high -heeled shoes but also not have high -heeled shoes. Can also accomplish not damage and under the condition of heel wearing and tearing at whole vamp, can own change heel. The utility model discloses loosen thing that locking the time only need use similar coin can, through slip guide slot and the automatic positioning of spill sphere during locking, accurate firmly reliably, convenient to use, safe, comfortable.

Inventors

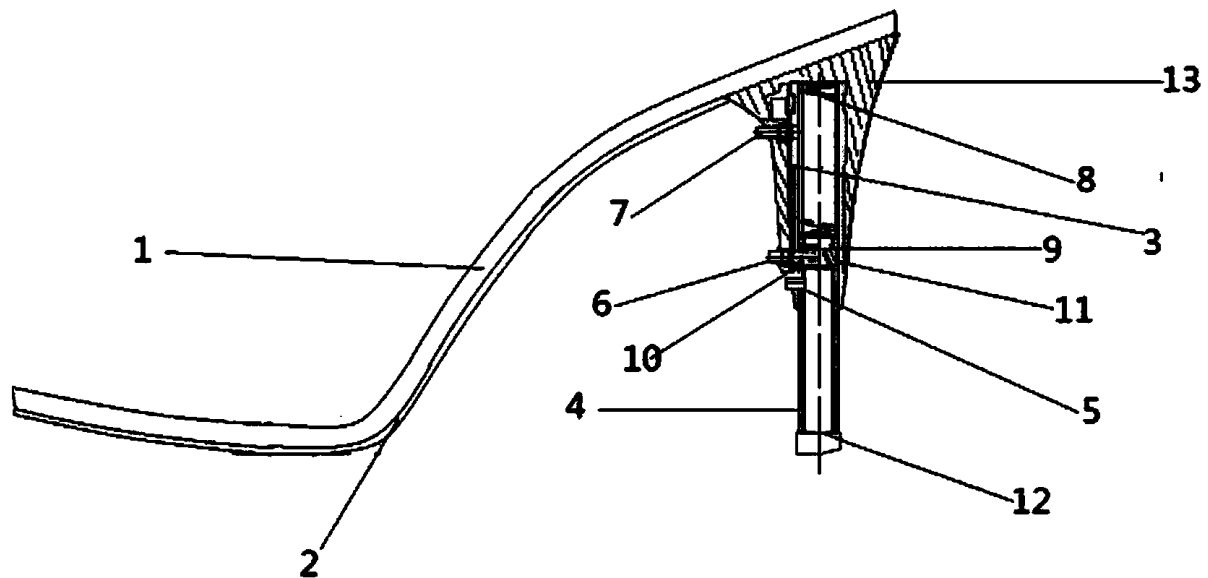
LUO TING

Family 327/432 - FAMPAT - ©Questel

Title

(CN204335999U)

Adjustable high-heel shoe

Images**Publication data including kind & date**

[CN204335999](#) U 2015-05-20 CN204335999U

**Abstract**

(CN204335999)

The utility model discloses an adjustable high-heel shoe. The adjustable high-heel shoe comprises a shoe upper, a shoe insole, a shoe outsole and a shoe heel, wherein the shoe heel is internally provided with a telescopic mechanism and a locking mechanism, and the telescopic mechanism is used for adjusting the height of the shoe heel. According to the adjustable high-heel shoe, the height of the shoe heel can be changed in an extending and retracting mode, the height of the shoe heel can be adjusted in a very large range, the problem that a pair of shoes only has a height is solved, a wearer can have an enough comfortable feeling, and great convenience is brought to the life and leisure of the user.

Inventors

YU HONG

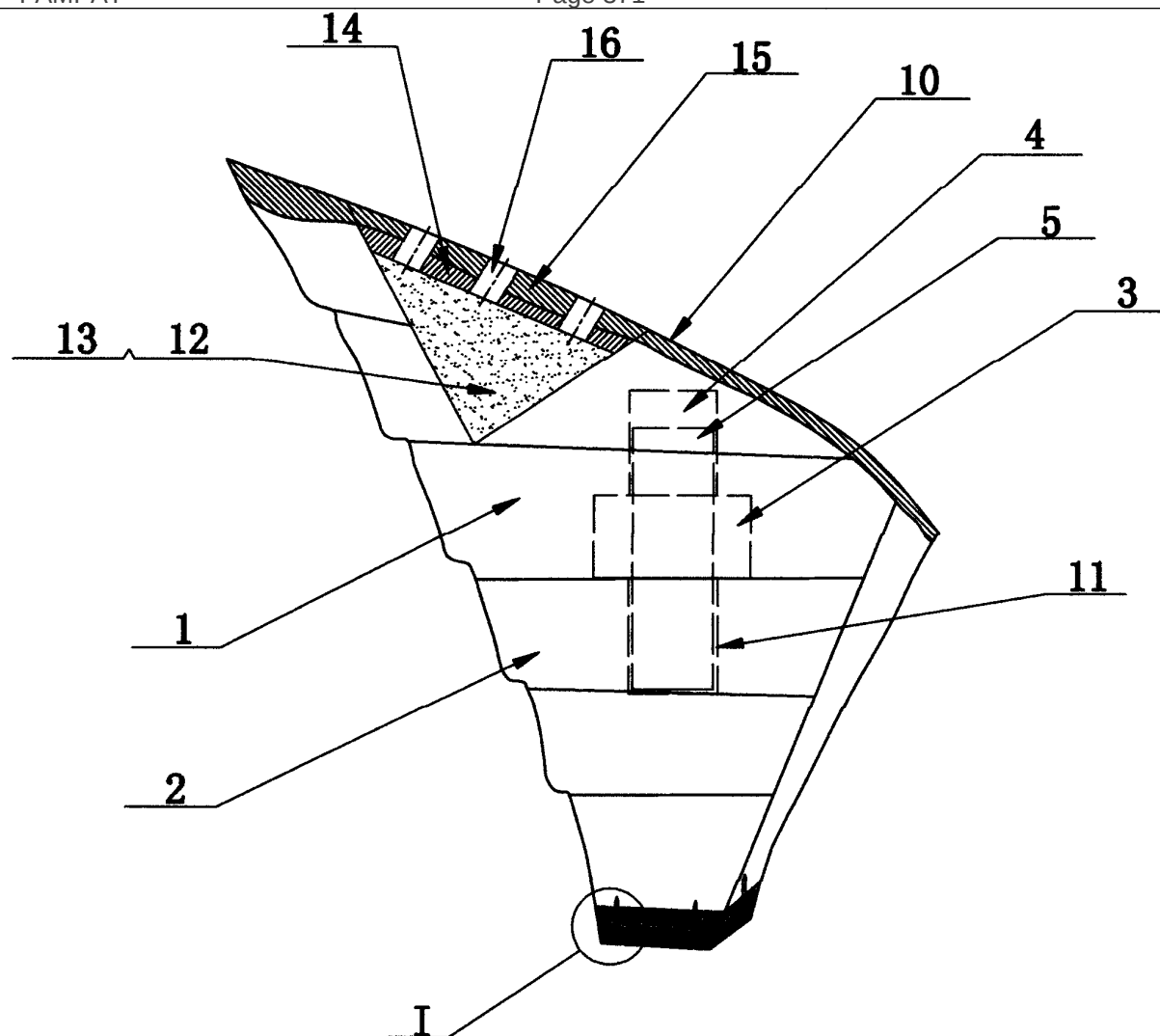
Family 328/432 - FAMPAT - ©Questel

Title

(CN203943166U)

Novel wear-resistant high-heeled shoe with adjustable heel

Images

**Publication data including kind & date**

CN203943166

U

2014-11-19

CN203943166U

**Abstract**

(CN203943166)

The utility model discloses a novel wear-resistant high-heeled shoe with an adjustable heel. The shoe comprises a sole, a vamp and a decoration. The heel portion of the sole is provided with the heel, the decoration is attached to the front end of the vamp, a suspension element is sewn on the portion, close to the rear foot sole portion, of the vamp, the heel comprises an upper heel body and a lower heel body, a nut is fixedly arranged in the middle of the lower end face of the upper heel body in an embedded mode, the upper end of the nut is provided with an adjusting hole, an adjusting screw rod is fixedly arranged on the portion, aligned to the nut, in the middle of the upper end face of the lower heel body, and the lower heel body is connected with the nut into a whole in a threaded mode through the adjusting screw rod; the bottom of the lower heel body is fixedly provided with a steel wire net layer, a lower rubber layer is stacked on the upper end face of the screw wire net layer, a steel piece layer is stacked on the upper end face of the lower rubber layer, multiple stainless steel screws are arranged among the steel wire net layer, the lower rubber layer and the steel piece layer in a penetrating mode, and an upper rubber layer is fixedly arranged on the upper end face of the upper heel body. By means of the technical scheme, the height of the whole heel can be adjusted by adjusting the screwing depth of the screw rod, and the shoe is convenient to adjust, resistant to piercing, good in wear resistance and steady in walking.

Inventors

PAN JIANZHONG

Latest standardized assignees - inventors removed

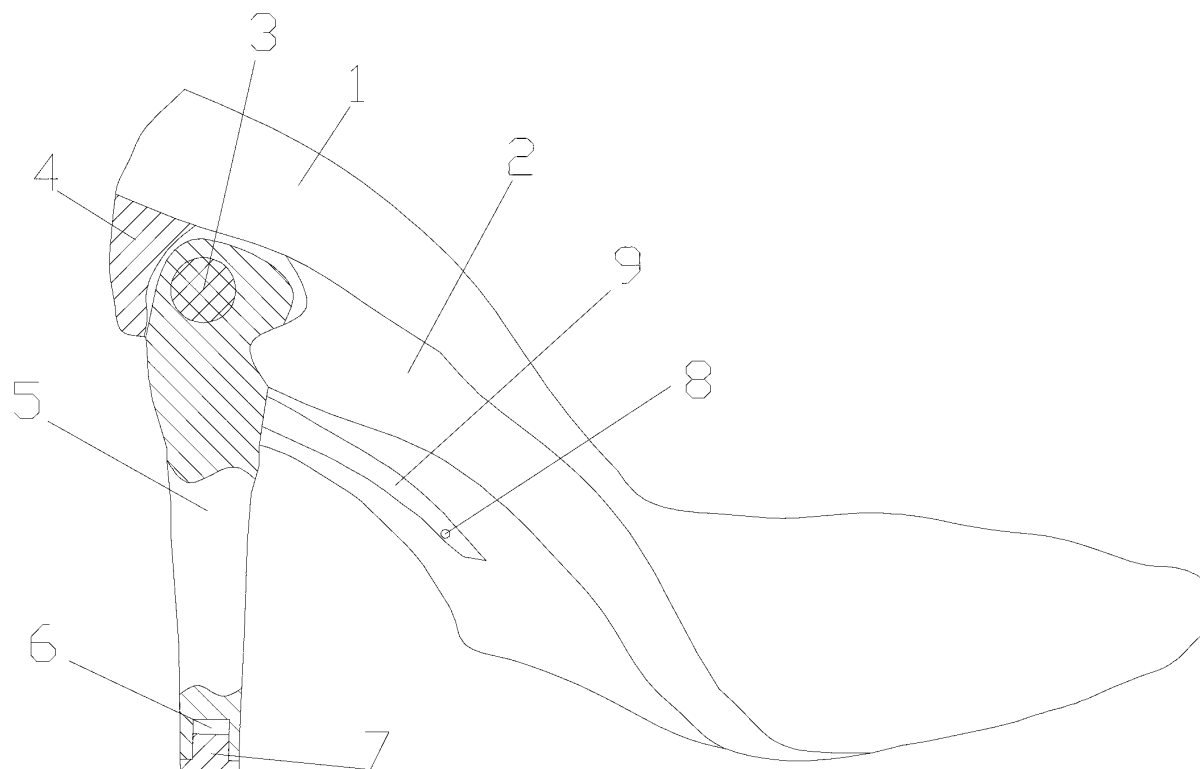
JUYI

Family 329/432 - FAMPAT - ©Questel

Title

(CN203388346U)

Shoe with foldable heel

Images**Publication data including kind & date**[CN203388346](#)

U

2014-01-15

CN203388346U

**Abstract**

(CN203388346)

The utility model provides a shoe with a foldable heel. The shoe with the foldable heel comprises an outsole and an upper, the outsole is provided with the heel, and the heel is arranged in a backward and forward rotation mode to enable the shoe to transform between a high-heeled shoe and a flat shoe. According to the shoe with the foldable heel, the transformation between the high-heeled shoe and the flat shoe can be completed conveniently through the heel which is arranged in a foldable mode, the applicability of the shoe is improved and the wearing and the using of the shoe can be facilitated.

Inventors

ZHOU AIPING

LUO GUANG

DENG JUNQUAN

YANG LEI

FAN HUITING

XIONG MINGWEI

Latest standardized assignees - inventors removed

CHONGQING UNIVERSITY

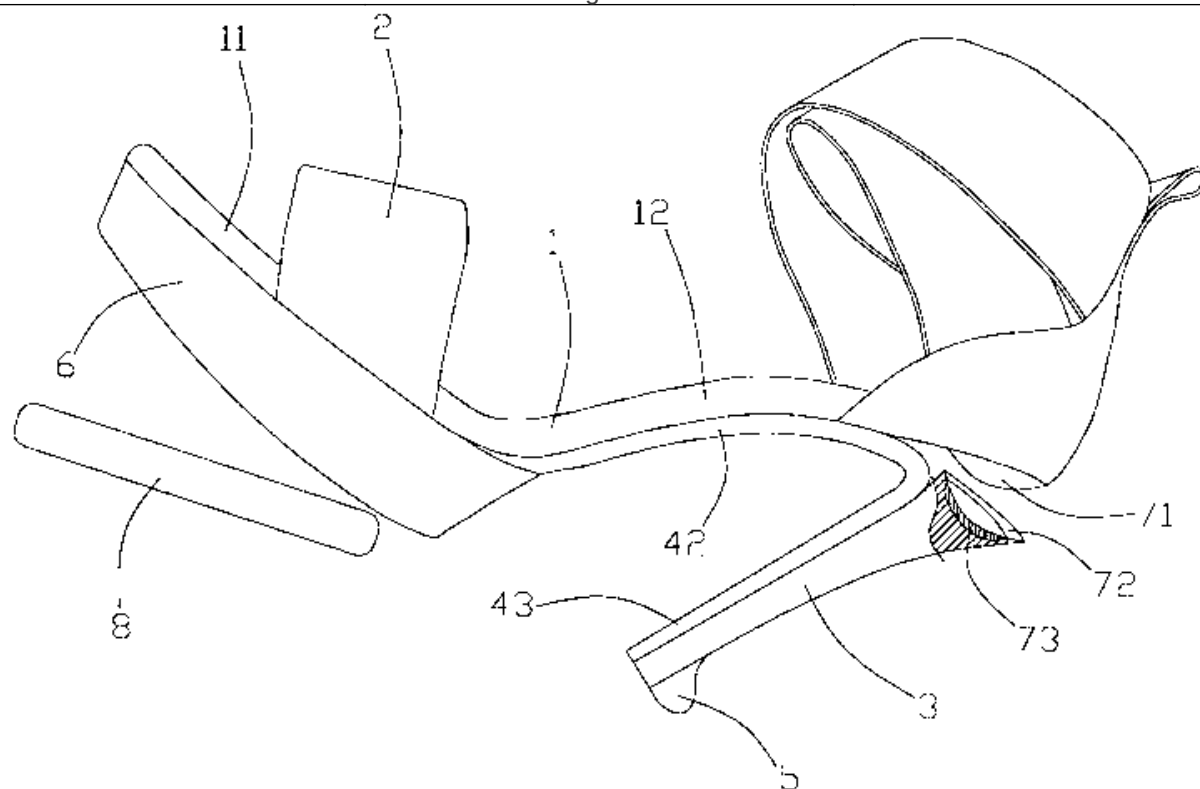
Family 330/432 - FAMPAT - ©Questel

Title

(CN202980416U)

High-heeled shoe with adjustable sole height

Images

**Publication data including kind & date**

CN202738934

U

2013-02-20

CN202738934U

**Abstract**

(CN202738934)

The utility model provides a pair of high-heeled shoes convenient for driving, comprising soles, uppers and heels. the soles sequentially comprise sole parts, arch parts and heel parts from front to back, the uppers are connected above the soles, the heels are arranged under the heel parts of the soles, an elastic sheet is arranged under the sole, each elastic sheet sequentially comprises a horizontal part, an inclined part and a vertical part from front to back, the horizontal parts are attached under the sole parts of the soles, the inclined parts are attached under the arch parts of the soles, the vertical parts are directly attached to the front sides of the heels, and the tops of the heels are connected under the heel parts of the soles by magnetic absorption devices. The high-heeled shoes provided by the utility model do not influence the driving; moreover, with the shoes, feet feel comfortable without fatigue when the driver drives a car.

Inventors

CHENG JIANYING

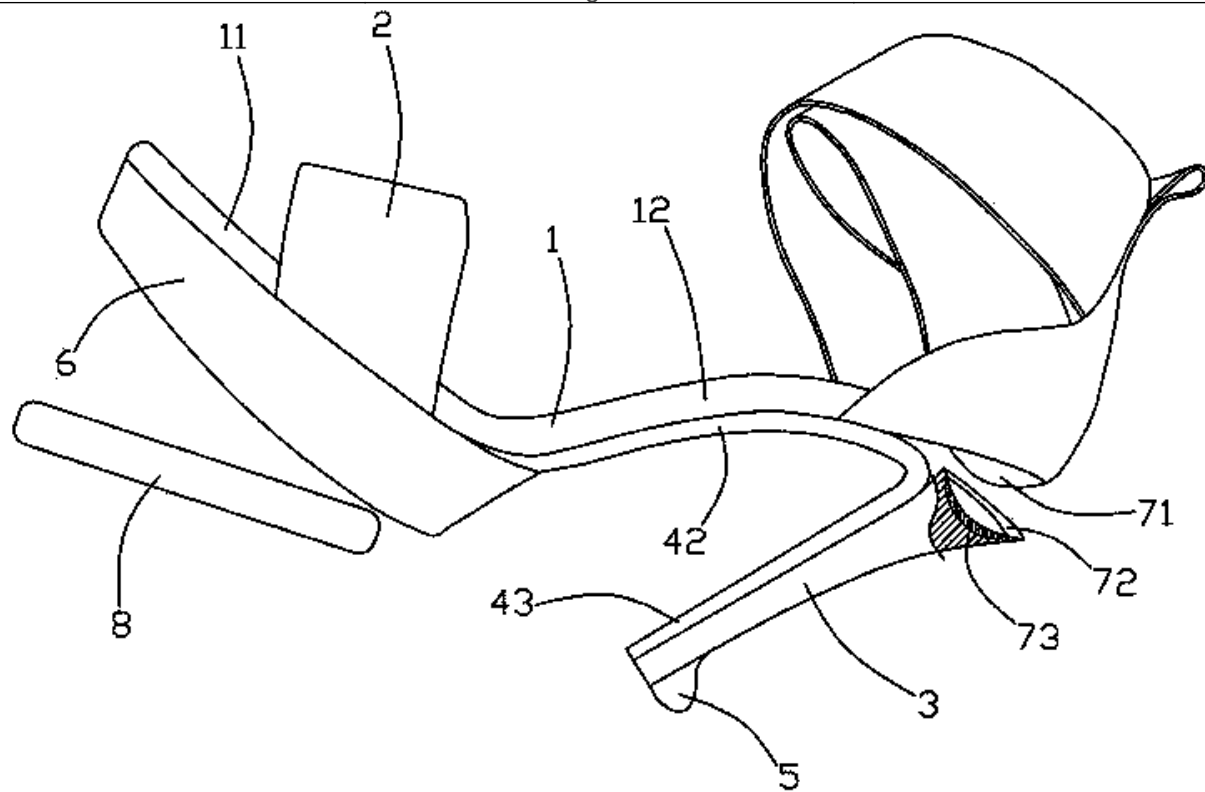
Family 332/432 - FAMPAT - ©Questel

Title

(CN102823990)

High-heeled shoe for driving

Images

**Publication data including kind & date**

CN102823990	B	2014-10-29	CN102823990B
CN102823990	A	2012-12-19	CN102823990

**Abstract**

(CN102823990)

The invention discloses a high-heeled shoe for driving. The high-heeled shoe comprises a sole, an upper and a heel, wherein the sole sequentially comprises a foot sole part, an arch part and a heel part from the front to rear; the upper is connected to the upper part of the sole; the heel is positioned below the heel part of the sole; an elastic piece is arranged below the sole; the elastic piece comprises a horizontal part, an inclined part and a vertical part from front to rear; the horizontal part is attached to the lower part of the foot sole part of the sole; the inclined part is attached to the lower part of the arch part of the sole; the vertical part is attached to the front side of the heel; and the top of the heel is connected with the lower part of the heel part of the sole through a magnetic suction device. According to the heel of the high-heeled shoe, the driving is not influenced, and a driver feels comfortable during driving and does not feel tired.

Inventors

CHENG JIANYING

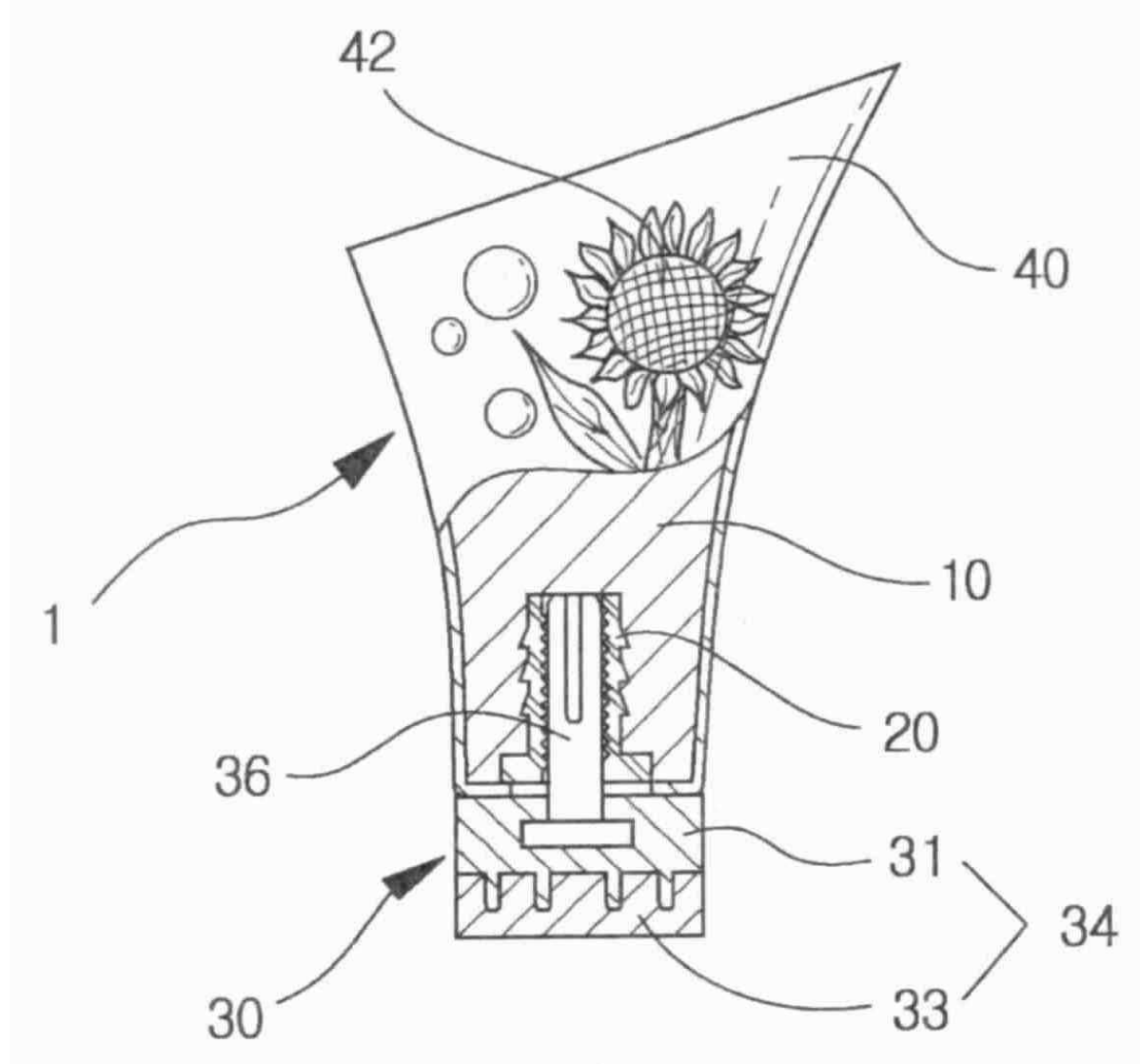
Family 333/432 - FAMPAT - ©Questel

Title

(KR20100039305)

Heel for high-heeled shoes in which a decorative cover capable of replacement is installed

Images



Publication data including kind & date

[KR20100039305](#)

A 2010-04-15

KR20100039305



Abstract

(KR20100039305)

PURPOSE: A heel for high-heeled shoes is provided, which can improve sensuousness of the high-heeled shoes and express various sensuousness by one high-heeled shoe.

CONSTITUTION: A heel for high-heeled shoes comprises: a gong(30) which is formed so that a fixation pin can upwardly protrude in the upper part of the bottom main body; a heel main body(10) for the high-heeled shoes formed in the form of the wide top narrow bottom; and a decorative cover(40) which is installed outside the heel main body in the external side and in which a design decoration part is expressed. In the lower part of the heel main body, an inserting hole is formed perpendicularly. A stationary tube(20) formed at the flange part is installed in the bottom part. In the lower part of the bottom main body(31), a cushion sole(33) is combined.

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Inventors

CHOI, JI HYE

Latest standardized assignees - inventors removed

CHOE MOON HEE

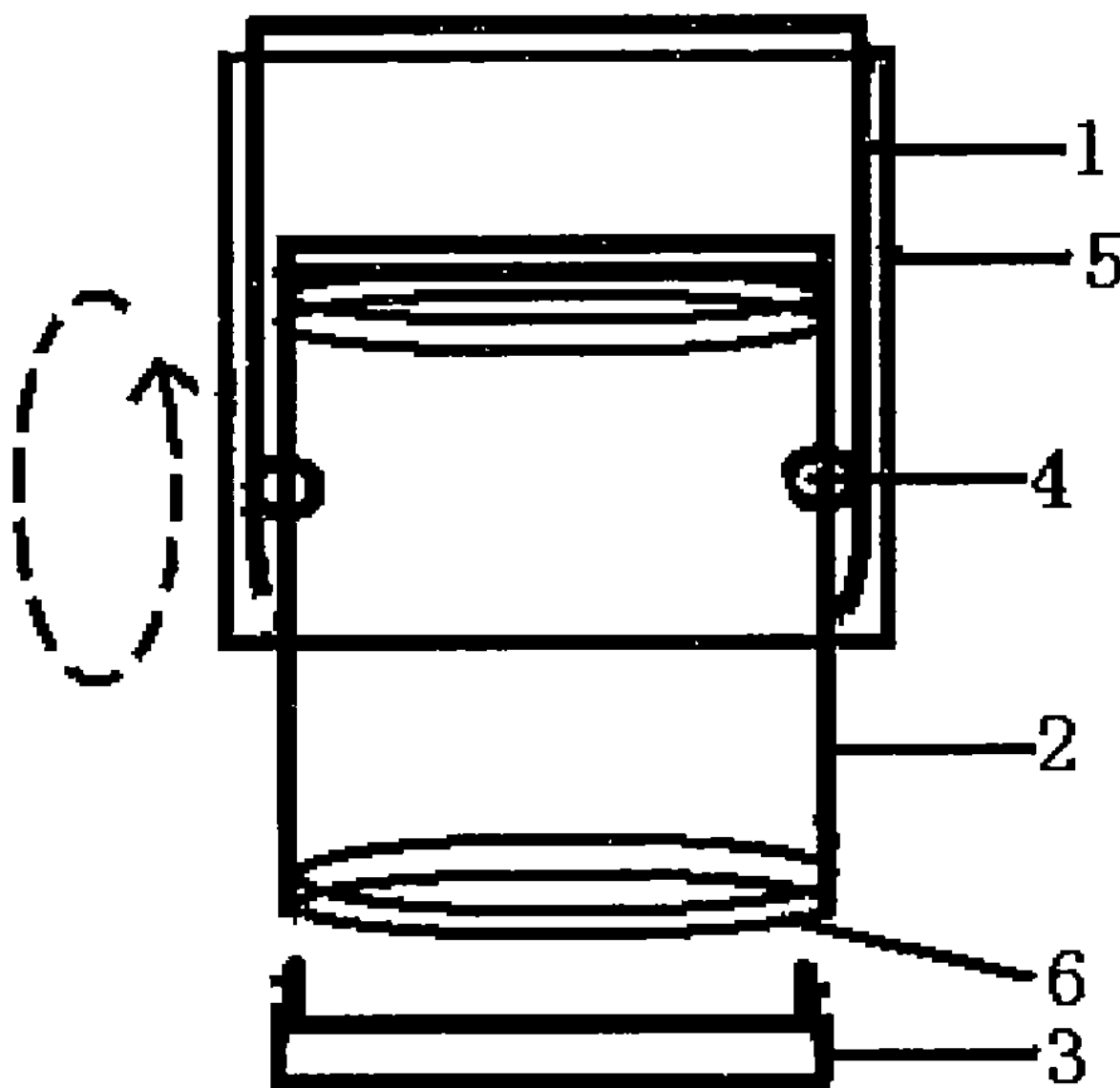
Family 334/432 - FAMPAT - ©Questel

Title

(CN201219560U)

Changeable heels

Images



Publication data including kind & date

CN201219560

Y

2009-04-15

CN201219560U



Abstract

(CN201219560)

The utility model discloses a changeable heel which can be changed at any time. The changeable heel comprises a fixing heel, a changing heel and a friction heel, wherein the fixing heel is connected with the changing heel by a bolt device or structure, the changing heel is bolted between both side edges of the fixing heel, the changing heel can be turned from top to bottom, can be changed, and can also be arranged on the outer sides of the front side edges of the fixing heel and the changing heel by a hinge which can freely rotate in the range of 270 degrees, the changing heel is connected with the friction heel by a dismountable device or structure, screw threads are carved on the inner side of the changing heel and the outer side of the upper end of the friction heel or clamping holes are carved on the lower end of the fixing heel, both ends of the changing heel and the upper end of the friction heel, the changing heel is connected with the friction heel by the screw threads or the clamping holes, and one changing heel can be assembled with 1 to 10 friction heels with different styles or heights, protecting pieces are surrounded on the circumference of the outer surfaces of both side edges of the fixing heel, and the fixing heel can be optionally assembled in order to change the heel. The utility model is convenient to the trip, the tour and the working requirement of people, in particular to women, and can save cost for enterprises.

Inventors

LIAN BIN

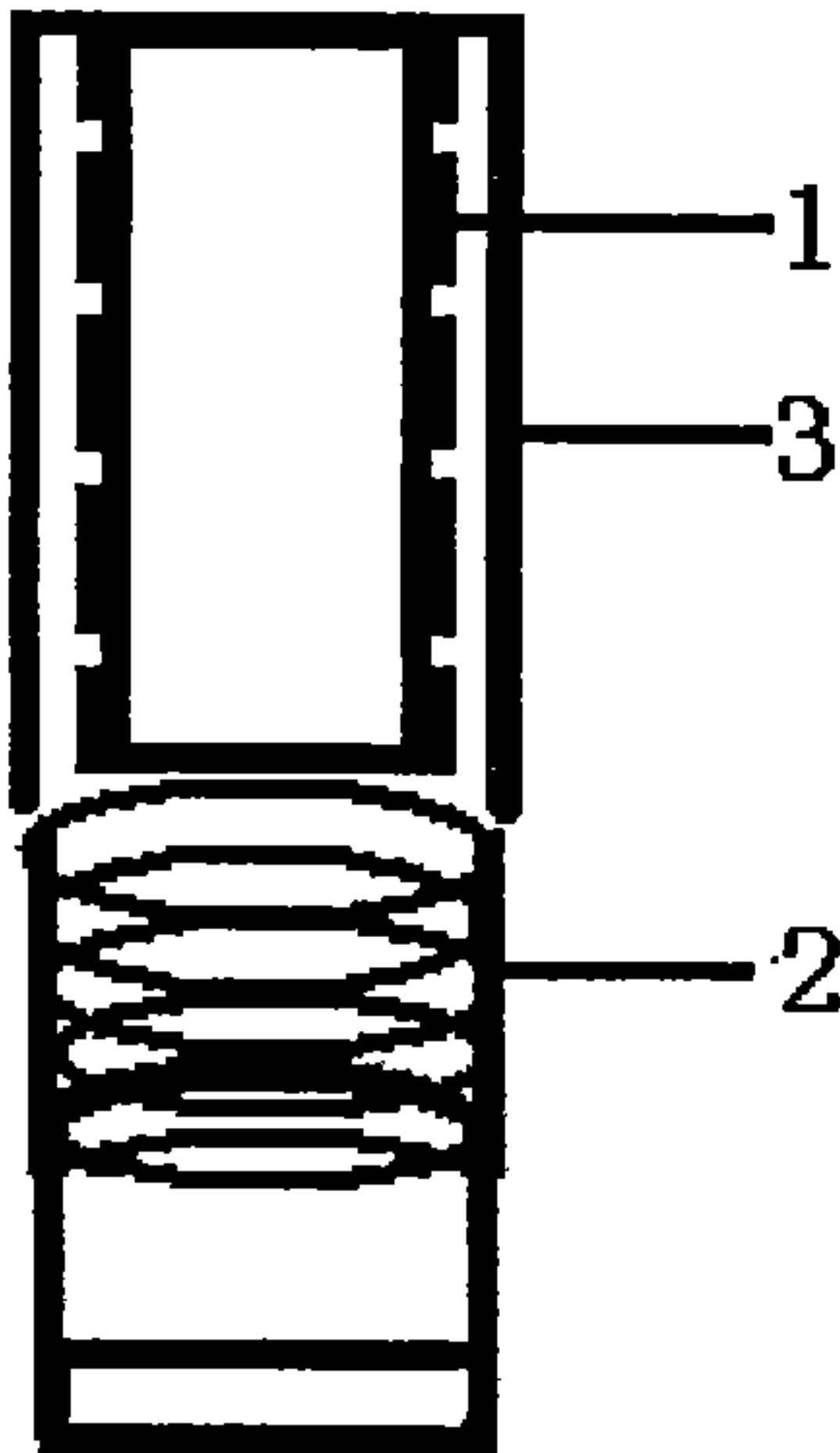
Family 335/432 - FAMPAT - ©Questel

Title

(CN201219562U)

Helical burr type adjustable heels

Images



(CN201219562)

The utility model discloses a thread type adjustable heel which can be replaced or adjusted at any time and comprises a fixing heel, a telescopic heel and protecting pieces, wherein the fixing heel is connected with the telescopic heel by a thread structure or device, the threads are carved on the inner sides or the outer sides of the fixing heel and the telescopic heel and are mutually and tightly screwed to connect the members of the heel, the protecting pieces are surrounded on the peripheries of the fixing heel or the telescopic heel, namely the thread structure or device point, and one fixing heel can be matched with 1 to 10 telescopic heels or protecting pieces. The utility model is convenient to the trip, the tour and the working requirement of people, in particular to women, and can save cost for enterprises.

Inventors

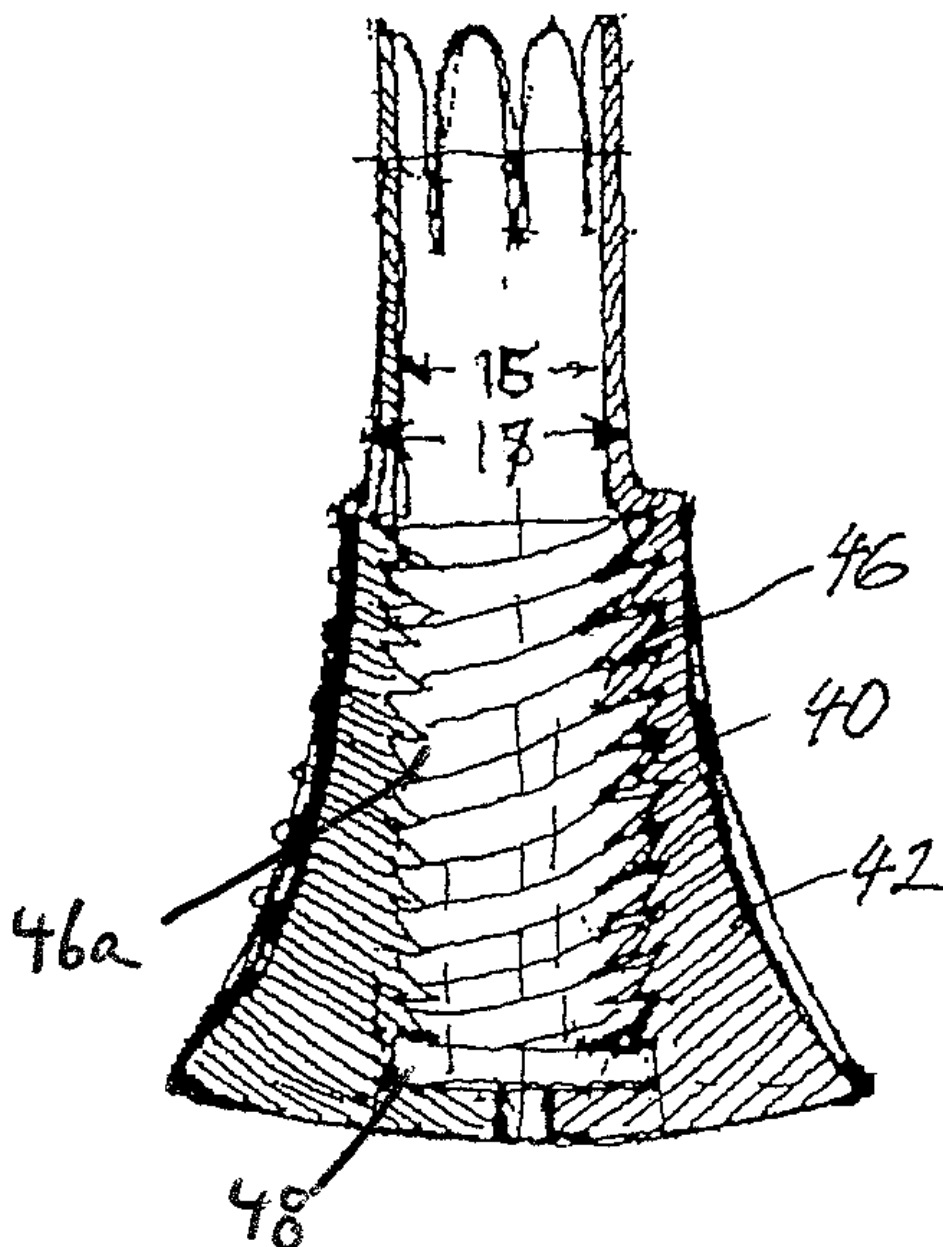
LIAN BIN

Family 336/432 - FAMPAT - ©Questel

Title

(EP1961323)

Support cap for thin and/or high heels on women's shoes

Images

Publication data including kind & date

ES2378087	T3	2012-04-04	ES2378087				
AT537723	T	2012-01-15	ATE537723				
EP1961323	B1	2011-12-21	EP1961323				
JP4852557	B2	2011-10-28	JP4852557				
US7971373	B2	2011-07-05	US7971373				
DE202007018596	U1	2008-11-20	DE202007018596				
EP1961323	A3	2008-10-01	EP1961323				
JP2008200493	A	2008-09-04	JP2008200493				
EP1961323	A2	2008-08-27	EP1961323				
US20080196279	A1	2008-08-21	US20080196279				

Abstract

(EP1961323)

The sleeve has a sleeve body fitted on a heel, and a sleeve hole projecting at an inner side. The sleeve hole comprises a pitch of screw thread forming ribs (10), where the sleeve is screwed down on bottom of the heel. The sleeve is formed as a closed cap at an end and consists of silicone rubber or elastic thermoplastic polyurethane (TPU). The sleeve is formed in a spherical manner, and a padding made of hard material such as metal, is provided in a closed base of the sleeve.

Inventors

EPPING ASTRID

Latest standardized assignees - inventors removed

EPPING ASTRID

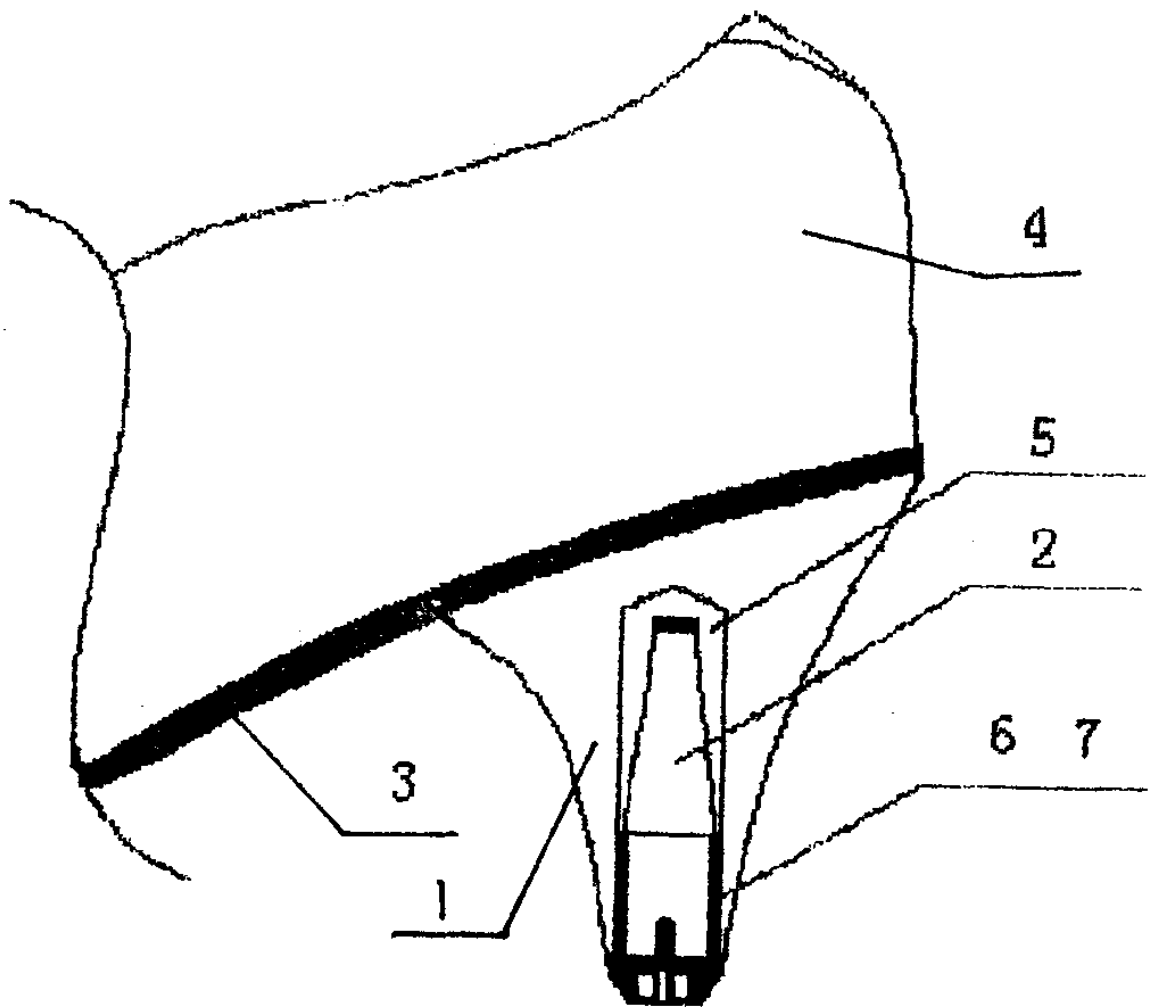
Family 337/432 - FAMPAT - ©Questel

Title

(CN201167627U)

High-heel shoe capable of changing height of heels

Images

**Publication data including kind & date**

CN201167627

Y

2008-12-24

CN201167627U

**Abstract**

(CN201167627)

The utility model relates to a height variable high-heel shoes. The heel consists of two parts of a fixed heel and an active heel. The lower part of the fixed heel is provided with a cylindrical blind pore. The inner lower part of the blind pore is provided with internal thread. One end of the active heel is provided with external thread. The height of the heel is changed by different connection modes (normal engagement connection or turnover engagement connection) of the active heel and the fixed heel to bring convenience to the wear in different occasions.

Inventors

WANG JIANZE

ZHAO ZHENGCHAO

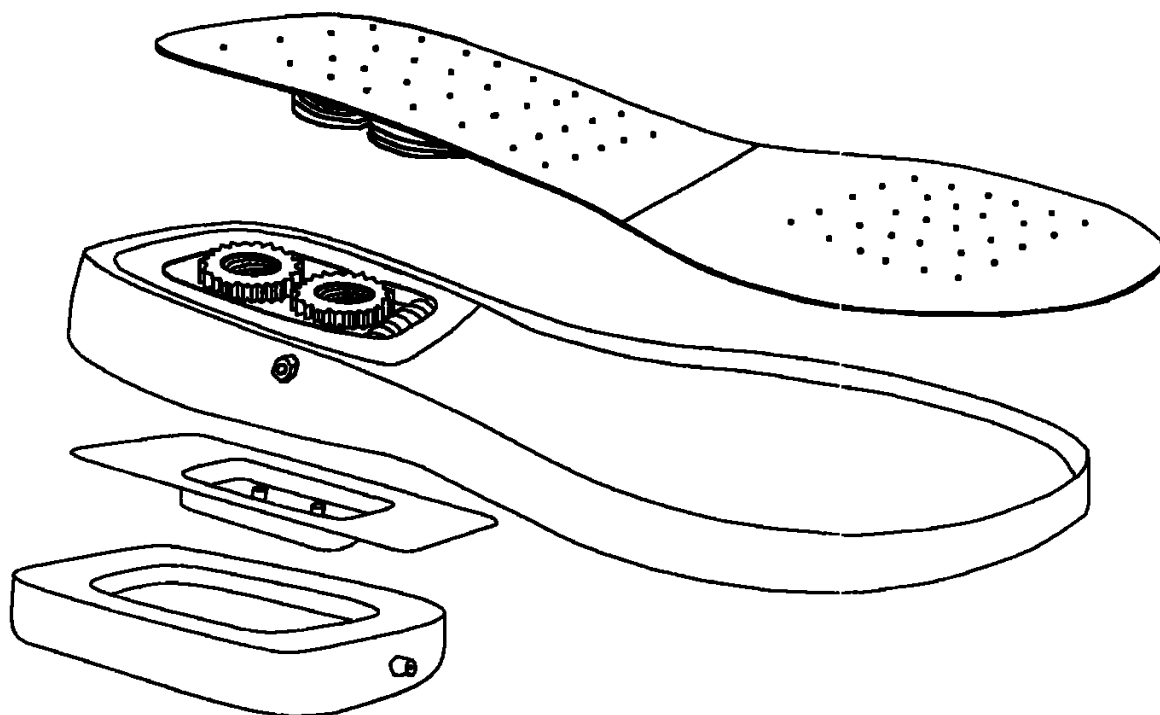
Family 338/432 - FAMPAT - ©Questel

Title

(CN200983897U)

Heel of shoe with the highness and elasticity adjustable

Images

**Publication data including kind & date**

CN200983897

Y

2007-12-05

CN200983897U

**Abstract**

(CN200983897)

A shoe heel capable of adjusting height and elasticity comprises a heel body, wherein the heel body is fixedly provided with two meshing gears. An external tube which is provided with a female thread is respectively fixedly arranged in the two gears. A heel skin having two internal tubes is arranged on the heel body. Each internal tube is provided with a male thread to mate with the female thread on each external tube. One of the two gears is connected with a screw in coordination. The screw extends out of the heel body through a hole in the heel body, and the exposed section of the screw which bulges on the outside surface of the heel body is covered by a nut. The utility model is creatively provided with an adjusting device of elasticity which enables people to adjust heel elasticity according to requirements when wearing and brings more comfortable walking feeling. Additionally, the utility model enables adjusting heel height through the exposed nut on the heel with easy adjustment.

Inventors

WU HAILONG

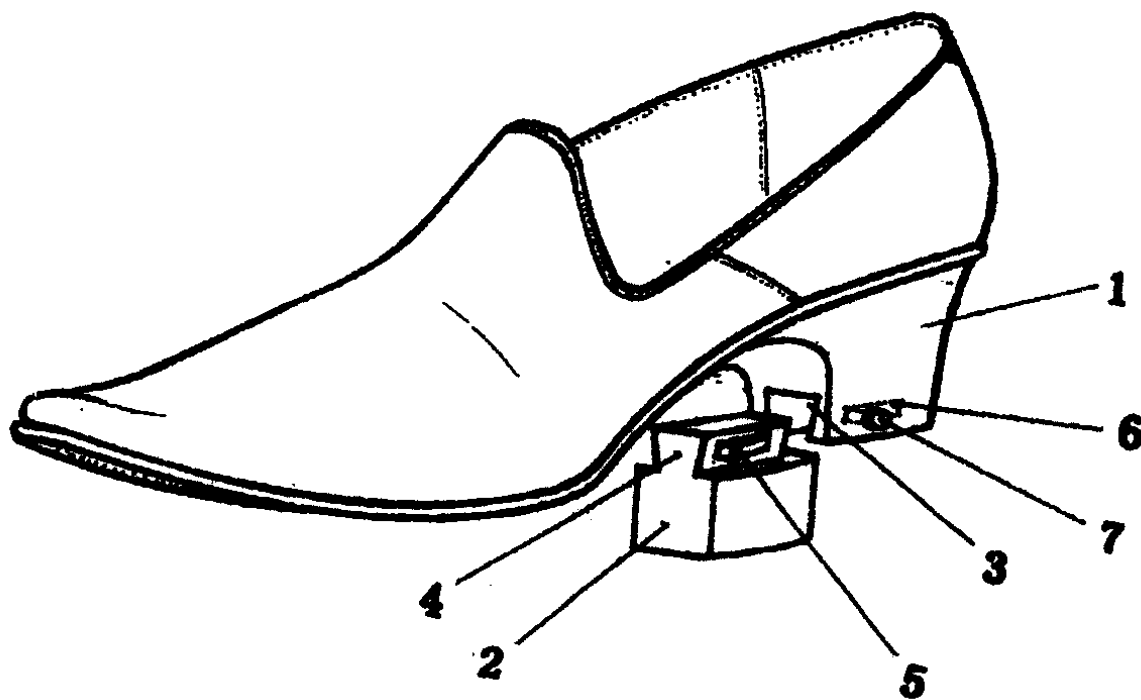
Family 339/432 - FAMPAT - ©Questel

Title

(CN2862771U)

Plug-pull two purposes shoes with flat-heel and high-heel

Images

**Publication data including kind & date**[CN2862771](#)

Y

2007-01-31

CN2862771U

**Abstract**

(CN2862771)

The utility model relates to a push-pull high and flat-heeled interchangeable dual-purpose shoe. Which is characterized in that, the heel is comprised of embedded and detachable two heels. In addition, due to above-mentioned design structure, the demand for flat-heeled shoe in some occasions can be met by detaching independent part of heel, thus achieving the aims of utility model.

Inventors

HE YONGLING

Latest standardized assignees - inventors removed

XIANGFAN COLLEGE

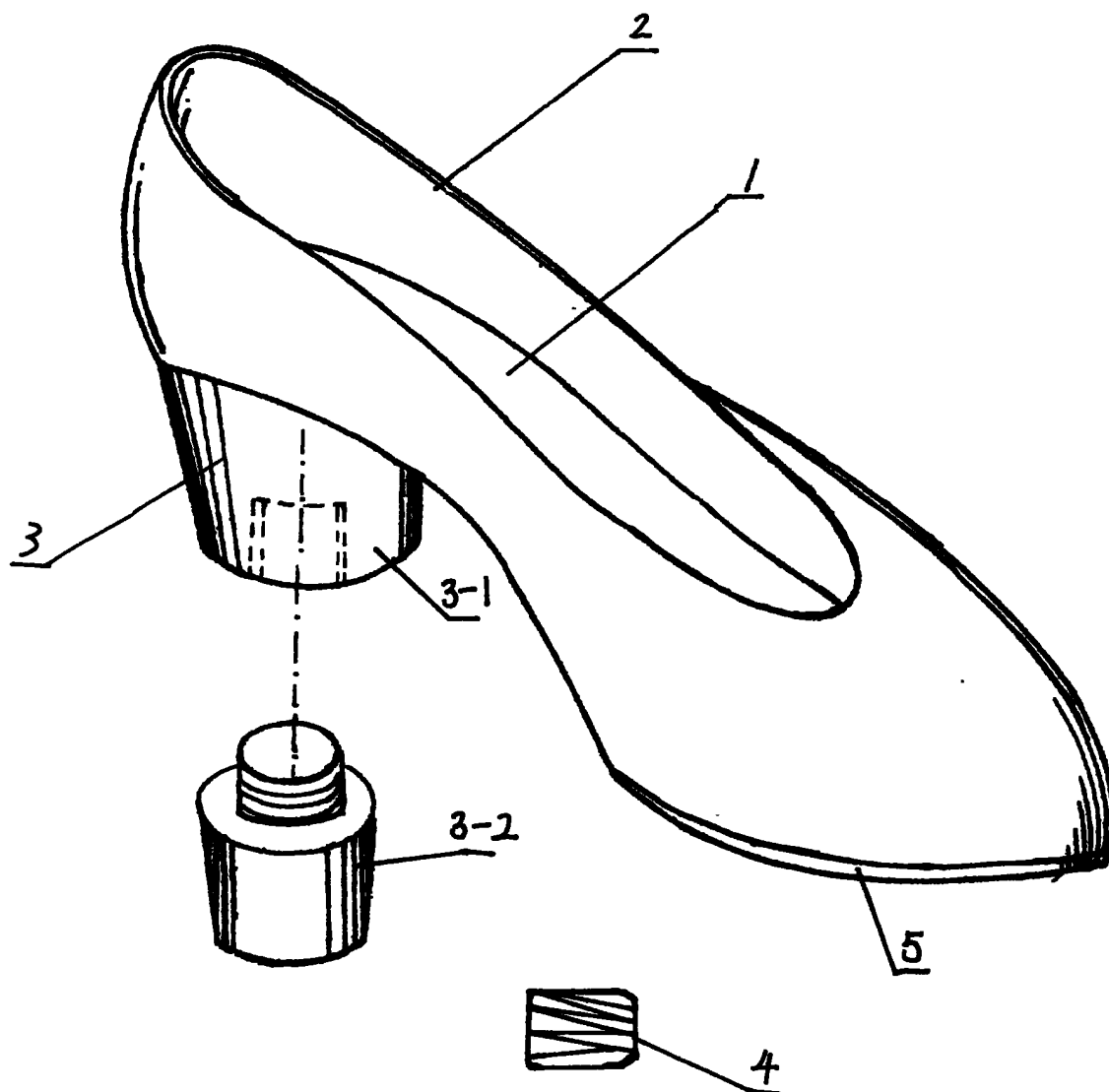
Family 340/432 - FAMPAT - ©Questel

Title

(CN2817519U)

Adjustable sandals

Images

**Publication data including kind & date**

CN2817519

Y

2006-09-20

CN2817519U

**Abstract**

(CN2817519)

The utility model relates to the fabrication of a pair of adjustable high-heel shoes. Each of the pair of adjustable high-heel shoes is composed of a shoe sole (1), an upper fixed together with the shoe sole (2), and a shoe heel (3) arranged at the rear part of the shoe sole, wherein the shoe heel (3) is composed of two sections which can be combined and disassembled; the upper section (3-1) of the shoe heel is fixed to the rear part of the shoe sole, and the center position is provided with a circular groove with a downward opening and screw thread; the center position of the lower section (3-2) of the shoe heel is provided with a cylindrical bulge with screw thread matched with the groove of the upper section of the shoe heel, wherein the bulge can be screwed into the groove. In the concrete process of use, a screw column (4) is also prepared, which can be screwed into the groove of the upper section (3-1) of the shoe heel to prevent the clogging of the ground sundries from damaging the screw thread in the groove according to the need of the combination and the disassembly.

Inventors

LI MING

Family 341/432 - FAMPAT - ©Questel

Title

(EP1793696)

Impact attenuating and spring elements and footwear containing such elements

BRPI0515366	A2	2018-07-24	BRPI0515366
EP2338368	B1	2017-10-25	EP2338368
EP2338366	B1	2017-03-08	EP2338366
EP2338367	B1	2014-12-31	EP2338367
EP1793696	B1	2014-07-09	EP1793696
US8720084	B2	2014-05-13	US8720084
US8720085	B2	2014-05-13	US8720085
US20130118033	A1	2013-05-16	US20130118033
US20130118034	A1	2013-05-16	US20130118034
US8348031	B2	2013-01-08	US8348031
EP2338366	A1	2011-06-29	EP2338366
EP2338367	A1	2011-06-29	EP2338367
EP2338368	A1	2011-06-29	EP2338368
US20110005100	A1	2011-01-13	US20110005100
US7798298	B2	2010-09-21	US7798298
CN100539888	C	2009-09-16	CN100539888C
BRPI0515366	A	2008-07-22	BR200515366
BRPI0515366	A1	2008-07-22	BRPI0515366
US20080098619	A1	2008-05-01	US20080098619
US7314125	B2	2008-01-01	US7314125
CN101026975	A	2007-08-29	CN101026975
EP1793696	A1	2007-06-13	EP1793696
WO2006/036608	A1	2006-04-06	WO200636608
US20060065499	A1	2006-03-30	US20060065499



(EP1793696)

Impact attenuating/spring systems may include first and second body portions and at least one spring member at least partially included between the body portions. The spring member(s) may substantially enclose and/or be pivotally engaged with the body portion(s). The components of the impact attenuating and spring element may be arranged such that when a force is applied to the body portion(s), the spring member(s) will exert a counter force to urge the impact attenuating and spring element back toward its original orientation. The spring members may include one or more polymeric element that stretches under a tensile force. The impact attenuating and spring elements may be included in a piece of footwear or other device in a manner such that a user or a retailer (or others) can select an appropriate spring member (or portion thereof),

Inventors

SMALDONE PATRICIA LOUISE

AVENI MICHAEL A

FAGERGREN FRED G

Latest standardized assignees - inventors removed

NIKE INNOVATE

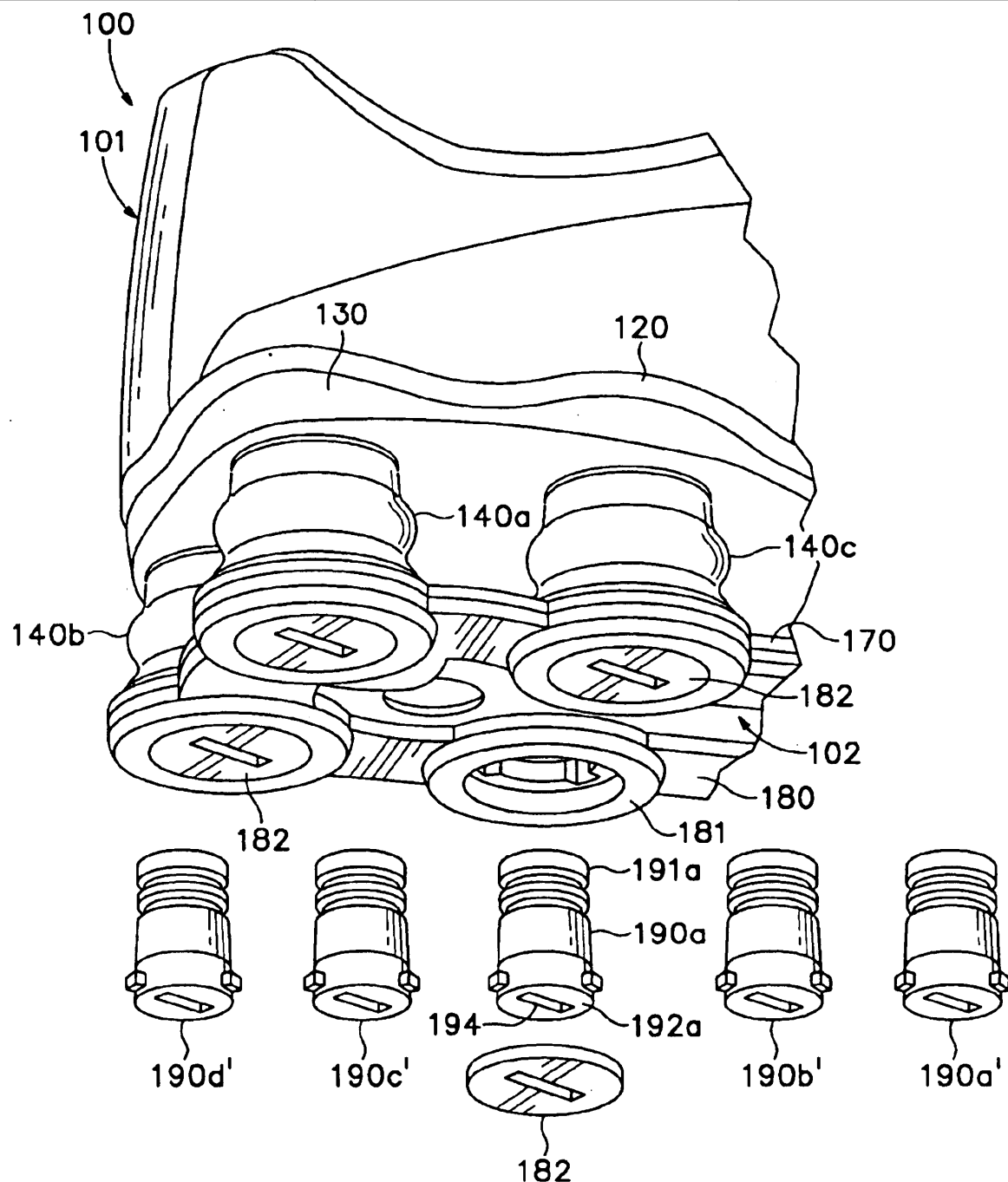
Family 342/432 - FAMPAT - ©Questel

Title

(EP1581068)

Article of footwear having a sole structure with adjustable characteristics

Images



Publication data including kind & date

BRPI0406651	B1	2015-06-09	BR200406651
BRPI0406651	A2	2014-08-12	BR200406651
EP2301371	B1	2013-07-17	EP2301371
EP2123183	B1	2012-08-01	EP2123183
CA2512398	C	2011-11-15	CA2512398
CN1750771	B	2011-06-29	CN1750771B
EP2301371	A1	2011-03-30	EP2301371
CN101731791	A	2010-06-16	CN101731791
JP4511515	B2	2010-05-14	JP4511515
HK1081083	A1	2010-03-05	HK1081083
EP2123183	A1	2009-11-25	EP2123183
DE602004023176	D1	2009-10-29	DE602004023176
AT442791	T	2009-10-15	ATE442791
EP1581068	B1	2009-09-16	EP1581068



US7082698	B2	2006-08-01	US7082698
JP2006515776	A	2006-06-08	JP2006515776
CN1750771	A	2006-03-22	CN1750771
BRPI0406651	A	2005-12-06	BR200406651
BRPI0406651	A1	2005-12-06	BR200406651
EP1581068	A1	2005-10-05	EP1581068
US6880267	B2	2005-04-19	US6880267
US20040181969	A1	2004-09-23	US20040181969
WO2004/062412	A1	2004-07-29	WO200462412
CA2512398	A1	2004-07-29	CA2512398
US20040128860	A1	2004-07-08	US20040128860



Abstract

(EP1581068)

The invention is a system for modifying characteristics of an article of footwear (100, 200, 300), particularly the sole structure (102, 202, 302). The footwear may include a plurality of discrete, vertically-projecting, columnar elements (140, 240, 340) that extend between upper and lower portions of a cavity formed in the sole structure. At least one of the columnar elements includes a void (141, 241) that is configured to receive an insert. The void (190, 290, 390) is accessible from the exterior of the footwear and the insert may be interchanged with an alternate insert that has different physical characteristics, thereby modifying the characteristics of the footwear.

Inventors

SMALDONE PATRICIA L

HURD JOHN

HOFFER KEVIN

SHEPERD STANN NORMAN RICHARD

Latest standardized assignees - inventors removed

NIKE

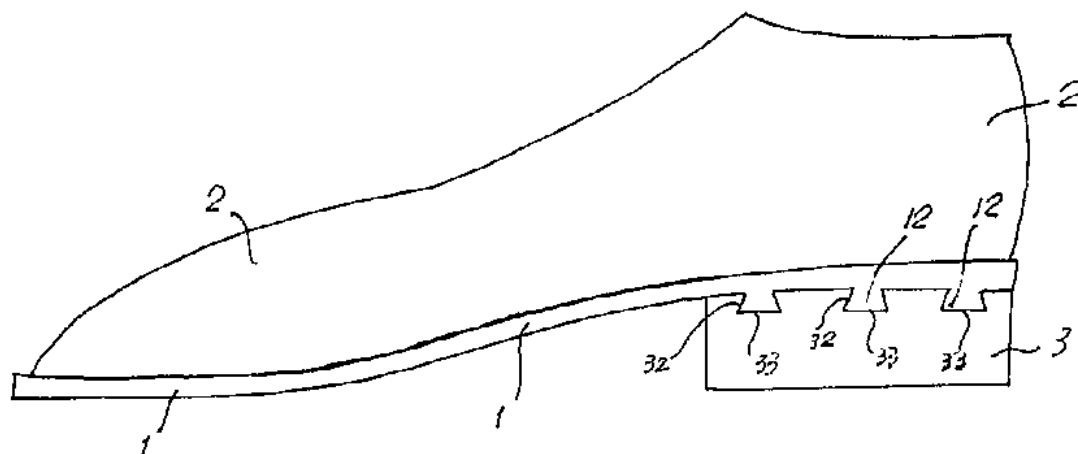
Family 343/432 - FAMPAT - ©Questel

Title

(CN2438355U)

Leather shoes with replaceable heels

Images



[CN2438355](#)

Y 2001-07-11 CN2438355U

Abstract

(CN2438355)

The utility model discloses a pair of leather shoes with replaceable heels, each of which is composed of an upper (2) and a sole (1). The utility model is characterized in that each heel (3) is movably connected with the sole (1). The movable connection can be dovetail groove connection, or inserting connection, or plastic screw fastening. When the phenomenon of slopy heels appears, people can take the slopy heels off. By utilizing the dovetail groove connection, or the inserting connection, or the plastic screw fastening, the slopy heels are changed into new heels, and can also be changed into the heels with different heights according to users' habits or practical situations.

Inventors

MAO XINRONG

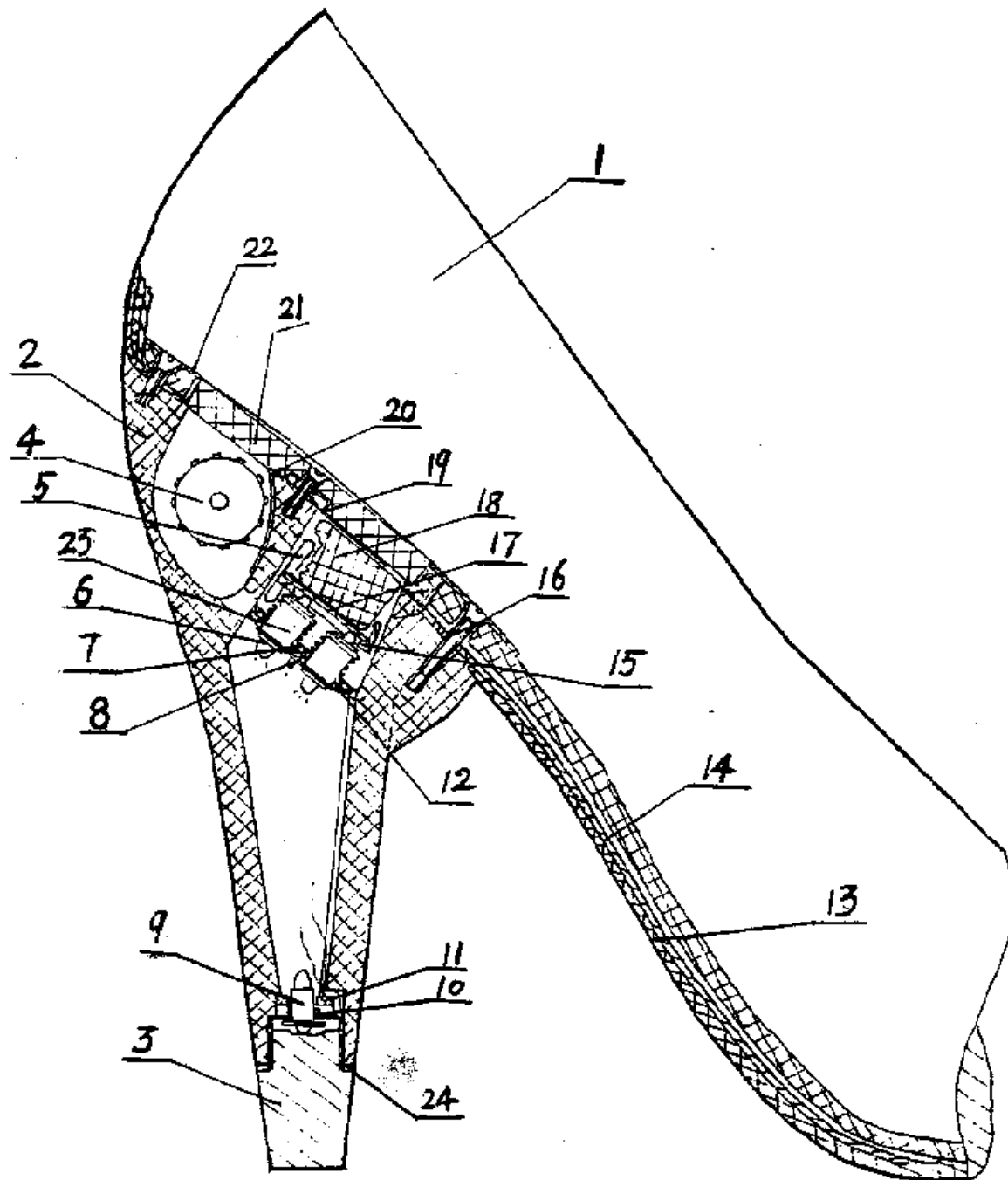
Family 344/432 - FAMPAT - ©Questel

Title

(CN2336615U)

Shoes with flashing and changable heels

Images



Publication data including kind & date

[CN2336615](#)

Y

1999-09-08

CN2336615U



Abstract

(CN2336615)

The utility model relates to a pair of shoes, of which heels can emit light in multiple-step with discoloration and can be replaced conveniently. The utility model is characterized in that the heel is hollow and is made of transparent plastic. All kinds of electrical apparatus elements are arranged in the heel. The light-emitting components adopt prefocus lamps and high brightness LED. The heel and the sole are connected by screws through an upper pressing sheet for convenient replacement. A cover plate is arranged on the upper part of the hollow heel alone, and the components in the housing of the heel can be replaced conveniently. The utility model is characterized in that the heel has high luminous lightness, and the components can be exchanged conveniently. The heel is also provided with a band switch to realize the control of step and color separation. The utility model has the advantages of long service life and convenient maintenance.

Inventors

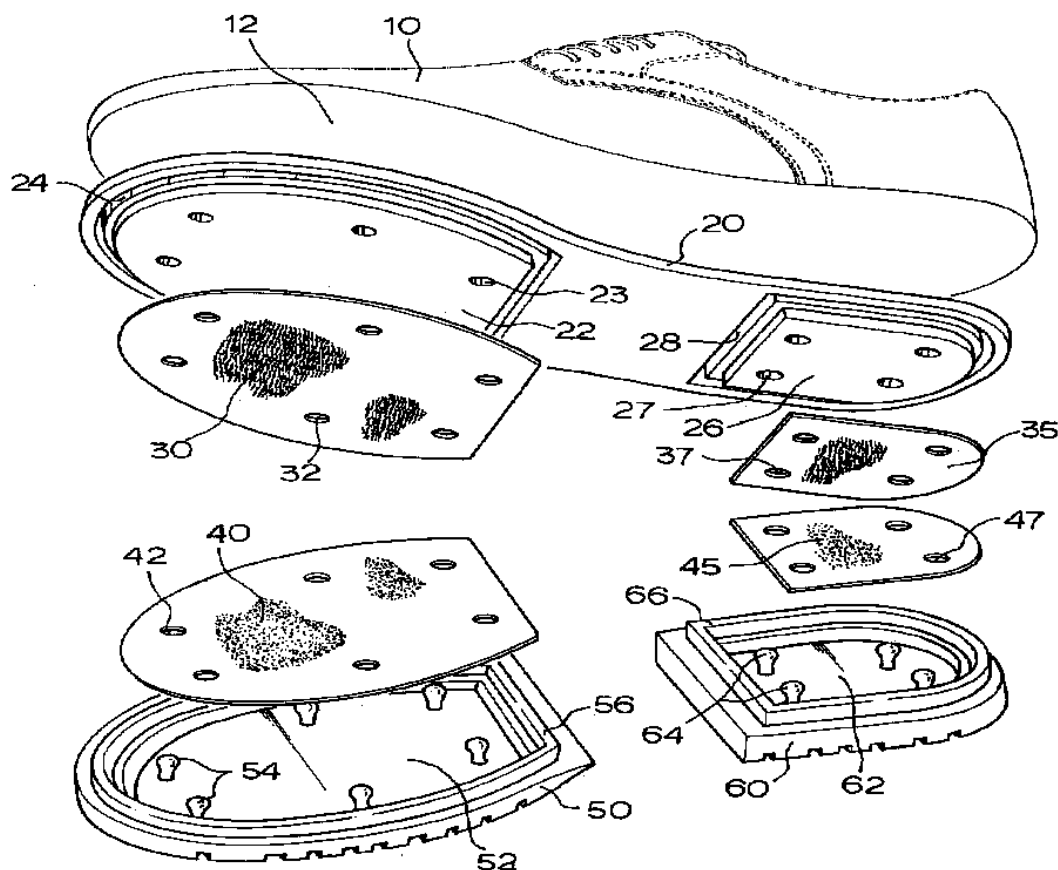
LI QINGZENG

Family 345/432 - FAMPAT - ©Questel

Title

(KR200144128U)

Detachable structure of shoes heel

Images**Publication data including kind & date**

KR200144128	Y1	1999-06-15	KR200144128U
KR19980033731	U	1998-09-05	KR19980033731U

**Abstract**

(KR19980033731)

This invention relates to a sole of the shoe in the heel of the shoe as an isolated, in particular, the front of the sole of (20) the groove (23) (27) and the protruding face (22) adhesively fixed to the protruding face (26) and a back to front at a position corresponding to the front and rear through-hole (37) through-hole (32) formed with fixed magic fo (30) and rear fixed magic fo (35), attached to the front fixed magic fo (30) fixed magic fo (35) said through holes (32) (37) and the front and the rear at a position corresponding to a contour (42) and a contour line (47) are formed in the front of the front and back adhesive Magic Foil (45) and adhesive Magic Foil (40), wherein the front adhesive magic foil (40) is separated from the adhesive fixed to the bottom surface of the sole (20) separated shape (50) and mounted, the rear adhesive magic foil (45) is fixed to the bottom surface of the adhesive is separated from the mold hoof (60) sole (20) vicecon heeled footwear with removable bar structure, with the heel of the shoe when worn backward while using the new the backbone by a rapid and accurate exchange very useful and convenient design of the present invention.

Inventors

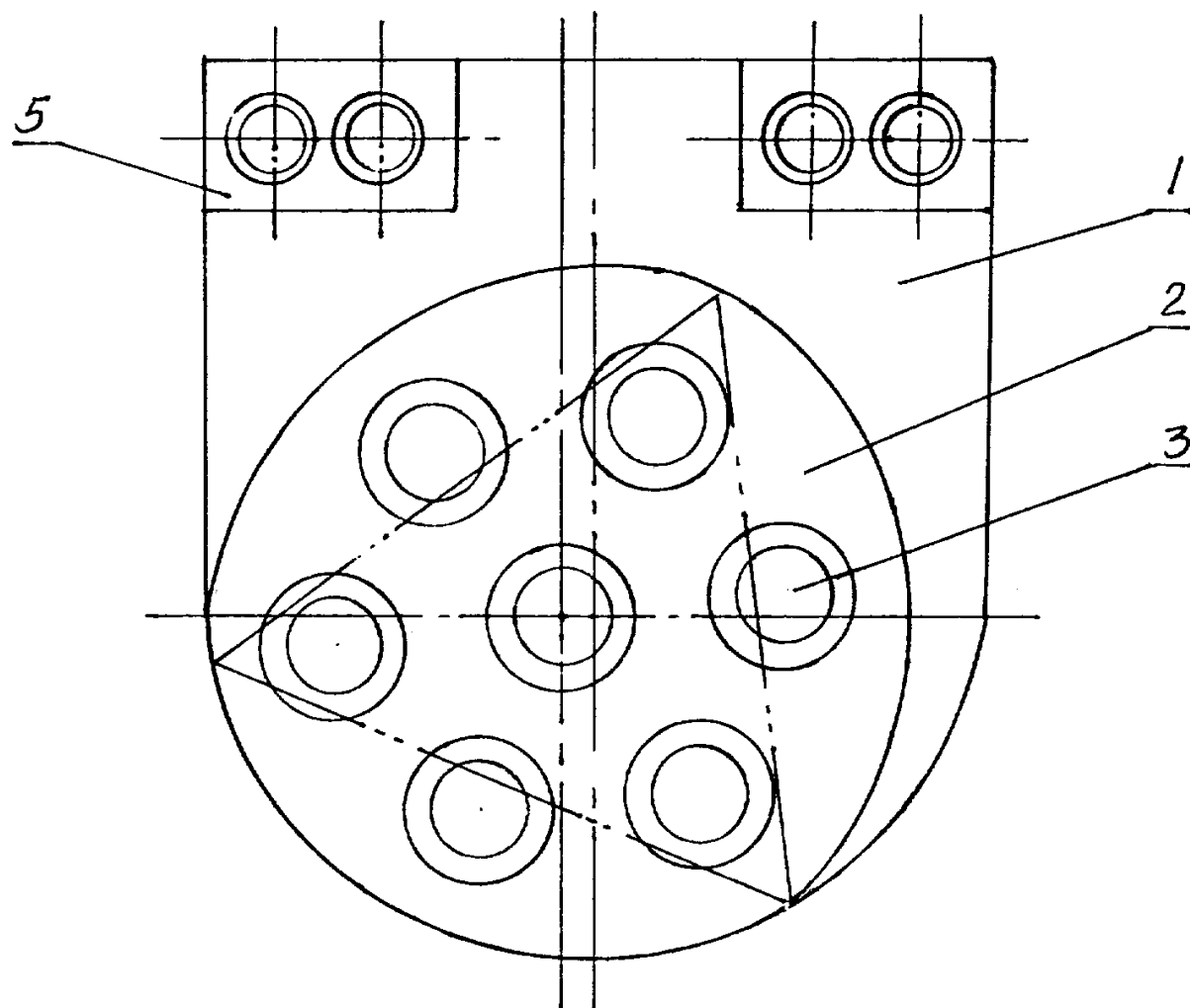
SONG, DAE-HAN

Family 346/432 - FAMPAT - ©Questel

Title

(CN2259073U)

Inserted shoe heel

Images**Publication data including kind & date**[CN2259073](#)

Y

1997-08-13

CN2259073U

**Abstract**

(CN2259073)

The utility model relates to an embedded type heel, which is a separated type. The peripheral arc line of a secondary body and the rear side arc line of a main body are tangent, and the secondary body and the main body are inserted and connected in a convex and concave mode. The angle of the secondary body can be rotated to adjust a wear surface, as if a new heel is hammered down, and the trouble of hammering down the heel can be eliminated. The utility model has the advantages of beautiful appearance, simple and convenient embedding, comfortable and stable wearing, long service life, etc., and the utility model is suitable for being widely applied to men's and women's leather shoes.

Inventors

SHEN ZHONGPING

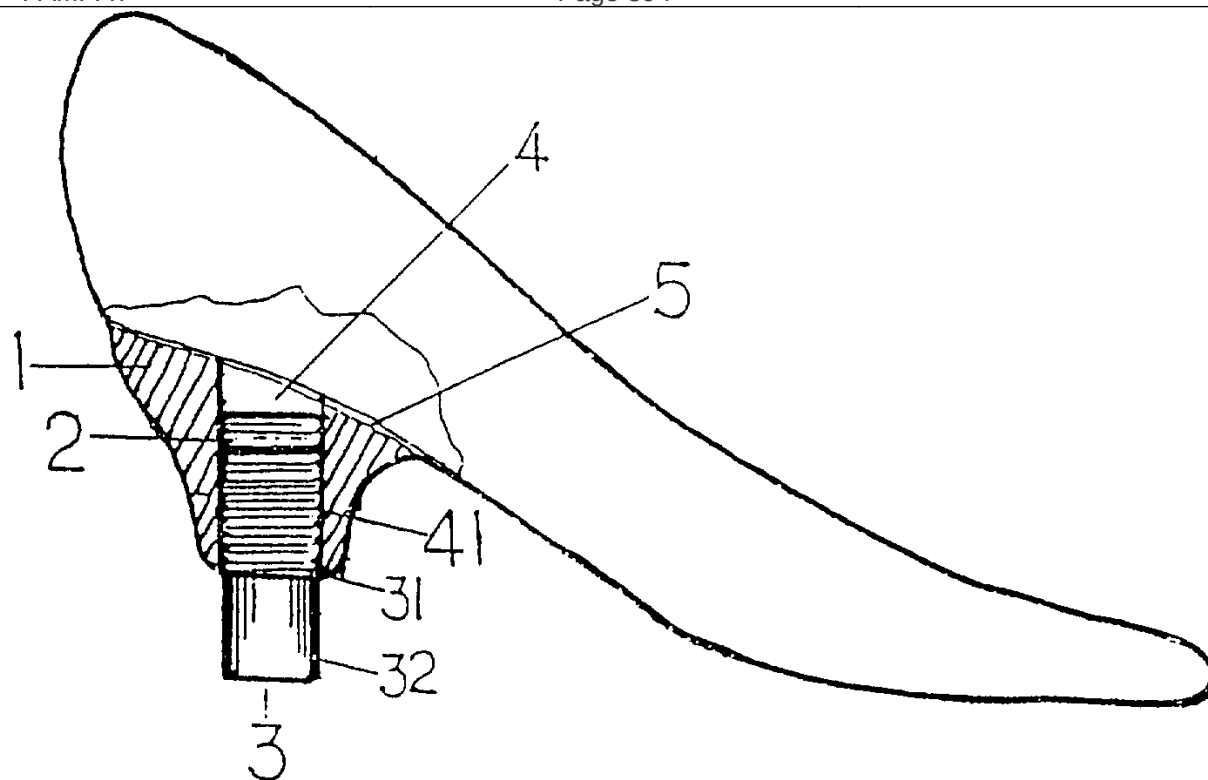
Family 347/432 - FAMPAT - ©Questel

Title

(CN2240280U)

Adjustable telescopic heel

Images

**Publication data including kind & date**[CN2240280](#)

Y

1996-11-20

CN2240280U

**Abstract**

(CN2240280)

The utility model relates to an adjustable telescopic heel, mainly composed of a heel body (1), a screwed clamp block (2), a telescopic rod (3), etc. A hole channel (4) is arranged in the heel body (1), and the inner of the hole channel (4) is provided with the screwed clamp block (2) and the telescopic rod (3). The exerted length of the telescopic rod (3) can be optionally adjusted automatically by the fit of a male screw (31) of the telescopic rod and an inner screw (female screw 41) in the hole channel (4) which are arranged on the telescopic rod (3). So the effect of adjusting the height of the heel automatically can be achieved, and the effect of fixing or locking the height of the telescopic rod can be achieved because of the screwed clamp block (2).

Inventors

LÜ SONGHAO

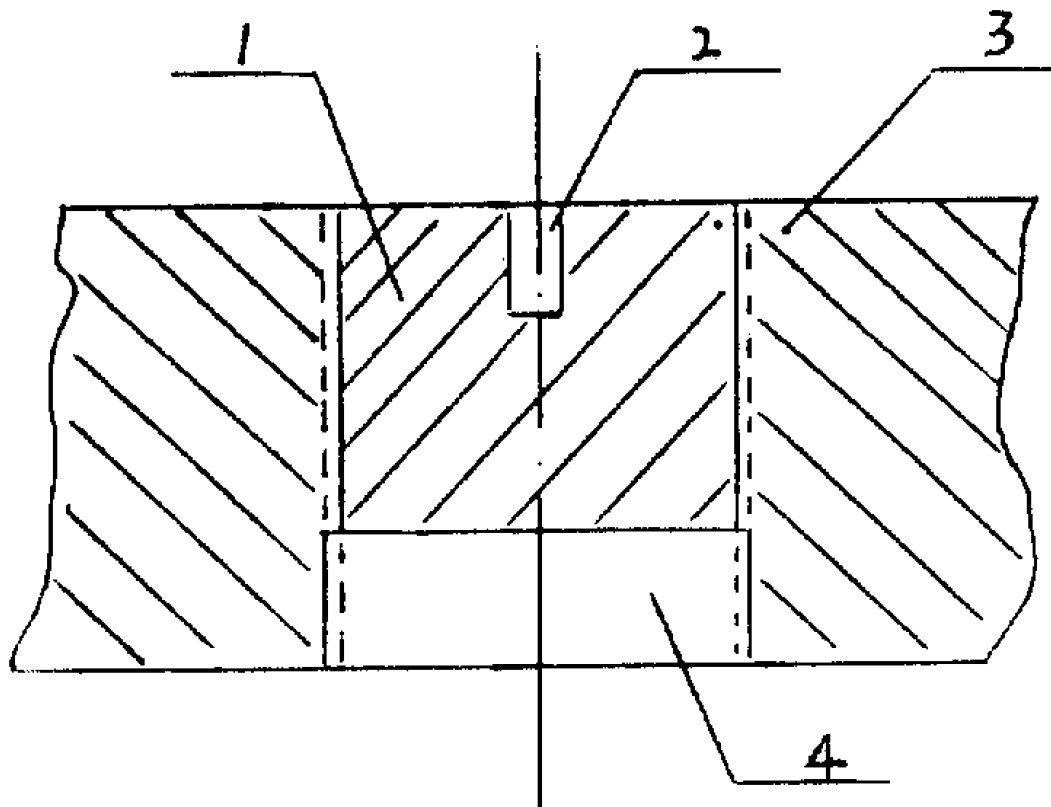
Family 348/432 - FAMPAT - ©Questel

Title

(CN2174876U)

Heels with adjustable parts

Images

**Publication data including kind & date**[CN2174876](#)

Y 1994-08-24 CN2174876U

**Abstract**

(CN2174876)

The utility model relates to a heel with adjustable parts. The easy abrasion part of the heel is provided with a hole, and the outer cylindrical surface of a movable pad with a screwdriver slot is matched with the inner cylindrical surface of the hole by thread fit. The movable pad can rise up by means of the thread fit only by rotating the screwdriver slot of the movable pad. The utility model provides an operable way for preventing the abrasion of the heel.

Inventors

YANG SHENG

Family 349/432 - FAMPAT - ©Questel

Title

(JP05021704U)

Women's shoe

Publication data including kind & date[JP5021704](#)

U 1993-03-23 JP05021704U

**Abstract**

(JP5021704)

Female mating recess and projection [object] in a simple manner by screws and the carriage's shoe heel of the can. PURPOSE: Heel 1 shoe body attaching 5 by a sole 4 insertion opening a screw 11 to be formed, the top surface of the screw 12 head 13 capable of accommodating space section 14 formed projections 15 in the same space 14 opening 16 insertion opening a screw 11 so as to be opposed to the sole 4 mounted, on the other hand, the protrusion 15 into a shape conforming recess 17 having to the upper end of the heel 1 the recess 17 protrusion 15 is fitted to the, the shoe body 5 from the inside of the insertion opening a screw 11 inserted into the screw 12 heel 1 by the screws to, the heel 1 to the protrusion 15 shoesoles via 4 attached.

Inventors

OGATA NORITOSHI

Latest standardized assignees - inventors removed

HOME REPAIR SERVICE

Family 350/432 - FAMPAT - ©Questel

Title

(KR19900009009U)

Heel

Publication data including kind & date[KR900009009](#)

Y1

1990-09-29

KR19900009009U

**Abstract**

(KR900009009)

No contents.

Inventors

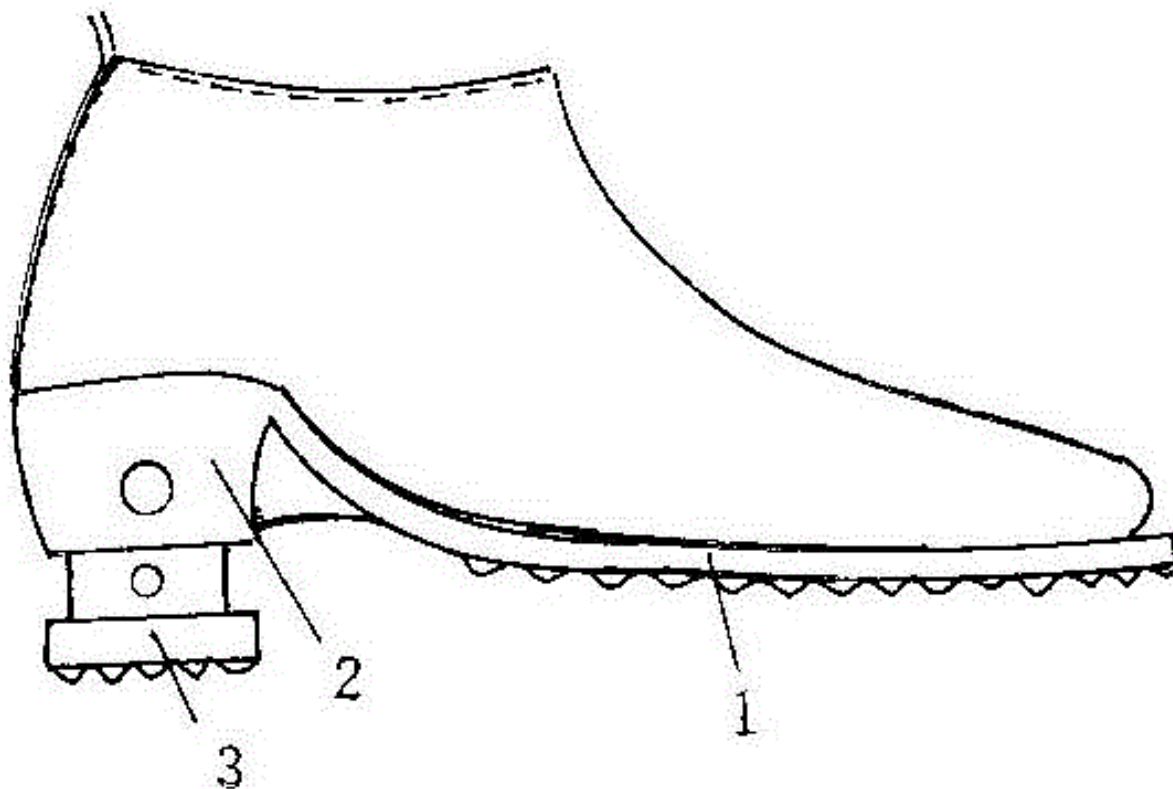
PARK, HEE-DEUK

Family 351/432 - FAMPAT - ©Questel

Title

(CN105639847)

Women shoe with height adjustable heel

Images**Publication data including kind & date**[CN105639847](#)

A

2016-06-08

CN105639847

**Abstract**

(CN105639847)

The invention provides a women shoe with a height adjustable heel; the heel of the sole of the women shoe is provided with a telescopic prolonged heel; in application, the heel of the shoe can be adjusted at any time according to needs and favors, so the women shoe can satisfy wearing needs of various type lovers.

Inventors

DU LIXING

Latest standardized assignees - inventors removed

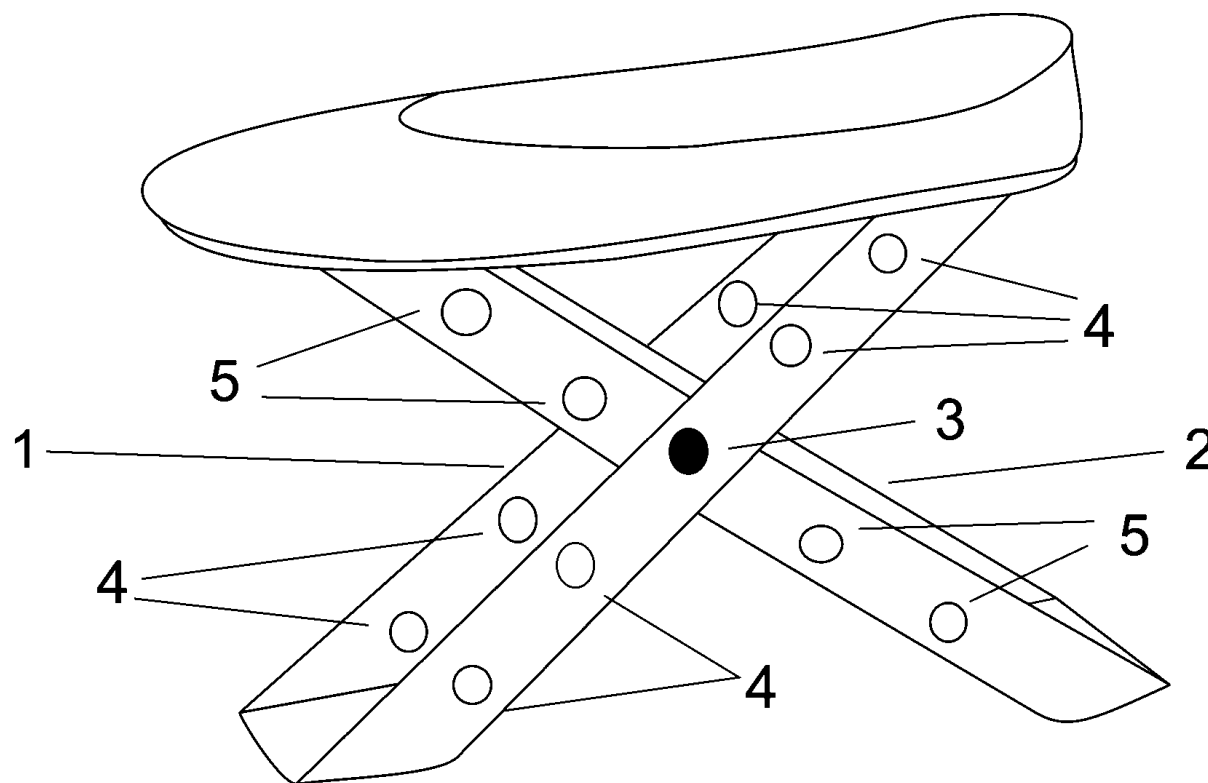
YICHENG NO 3 SENIOR HIGH SCHOOL

Family 352/432 - FAMPAT - ©Questel

Title

(CN105011471)

Child and mother high-heeled shoe capable of being lifted up and down

Images**Publication data including kind & date**[CN105011471](#)

A

2015-11-04

CN105011471

**Abstract**

(CN105011471)

The invention provides a child and mother high-heeled shoe capable of being lifted up and down. A common high-heeled shoe makes the gravity center of a human body move forwards, pressure is concentrated on toes, and a series of diseases are caused. The common high-heeled shoe can only keep one height. The child and mother high-heeled shoe capable of being lifted up and down is characterized in that a mother shoe heel (1) and a child shoe heel (2) are arranged on the shoe sole of the high-heeled shoe, the child shoe heel (2) penetrates the interior of the mother shoe heel (1) to be in a crossed shape, and the crossed portion is fixed through a screw (3); a hole (4) is formed in the mother shoe heel, a hole (5) matched with the hole (4) is formed in the child shoe heel, and then the child and mother high-heeled shoe capable of being lifted up and down is synthesized. The child and mother high-heeled shoe capable of being lifted up and down has the advantages that the high-heeled shoe is flat-bottomed, not prone to being broken and safer, and the height of the high-heeled shoe can be freely adjusted.

Inventors

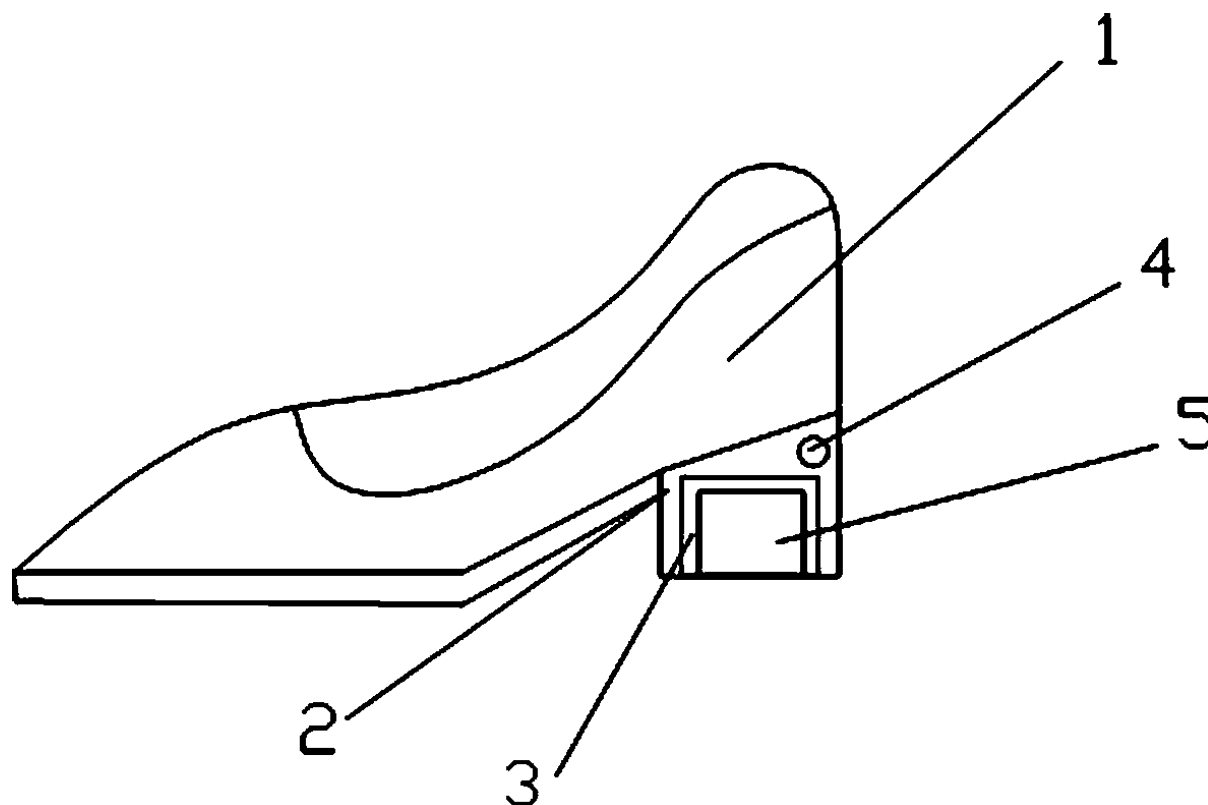
TANG WUJUN

Family 353/432 - FAMPAT - ©Questel

Title

(CN104720191)

Manufacturing technology for heel-changeable shoe

Images**Publication data including kind & date**[CN104720191](#)

A 2015-06-24 CN104720191

**Abstract**

(CN104720191)

The invention provides a manufacturing technology for a heel-changeable shoe. The heel-changeable shoe comprises a shoe body (1) and a heel (2) of the shoe body (1), wherein a heel (3) is arranged in an inner cavity of the heel (2); the heel (2) is provided with a button (4); a heel (5) is arranged in the heel (3); a cavity is formed in the first heel (2) of the shoe body (1); the third heel (5) is arranged in the second heel (3); stretching and retracting of the third heel (5) are controlled through the button (4); the second heel (3) is arranged in the first heel (2); and stretching and retracting of the second heel (3) are also controlled through the button (4). The manufacturing technology for the heel-changeable shoe has the advantages that the height of the heel can be adjusted according to demands of a user, the shoe is multipurpose, apparel requirements of women during working of the women can be met, the women can also go out conveniently, and the trouble of the women wearing high-heeled shoes can be eliminated.

Inventors

LI PENG

FU ZHONGXING

Latest standardized assignees - inventors removed

WUHAN NO 11 MIDDLE SCHOOL

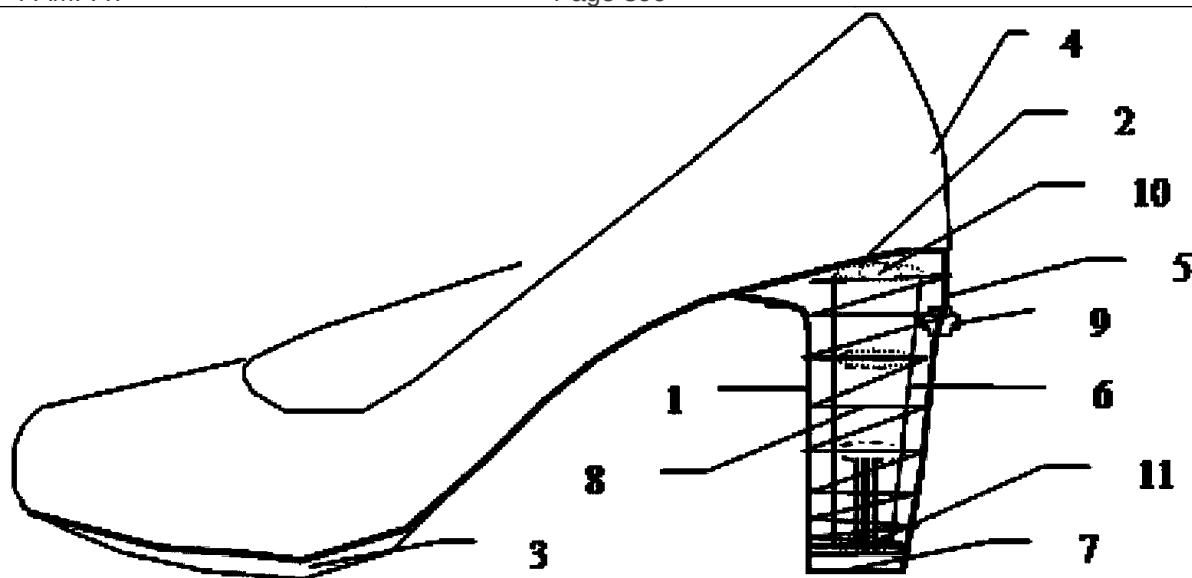
Family 354/432 - FAMPAT - ©Questel

Title

(CN203986392U)

High-heeled shoe capable of being changed into flat shoe

Images

**Publication data including kind & date**[CN203986392](#)

U

2014-12-10

CN203986392U

**Abstract**

(CN203986392)

The utility model discloses a high-heeled shoe capable of being changed into a flat shoe. The high-heeled shoe is simple in structure, easy to process and manufacture, safe in bearing, capable of being conveniently changed into the flat shoe, attractive and wear-resistant. The high-heeled shoe comprises an upper, a front sole, a rear sole, a heel and a shoe sole, the rear sole and the shoe sole are provided with a cavity, a heel shaft and a compression spring are arranged in the cavity, the heel shaft is in a rod shape and can be adjusted axially, the compression spring is located on the periphery of the heel shaft and surrounds the heel shaft in a tower type, the upper end of the heel shaft and the upper end of the compression spring are connected with the rear sole, the other end of the heel shaft and the other end of the compression spring are connected with the shoe sole, and the outside of the heel is provided with a clamping buckle switch to serve as a linkage buckling mechanism so that the high-heeled shoe and the flat shoe can be switched over. The high-heeled shoe is suitable for women who like to wear high-heeled shoes, according to use requirements of different situations, the high-heeled shoe and the flat shoe can be switched over once the clamping buckle switch is triggered up and down, adaptability of the shoe is effectively improved and the high-heeled shoe capable of being changed into the flat shoe is economical, practical, wide in use range and convenient to use.

Inventors

WU QIONG

Latest standardized assignees - inventors removed

JIJIAN HEAVY INDUSTRY TECHNOLOGY

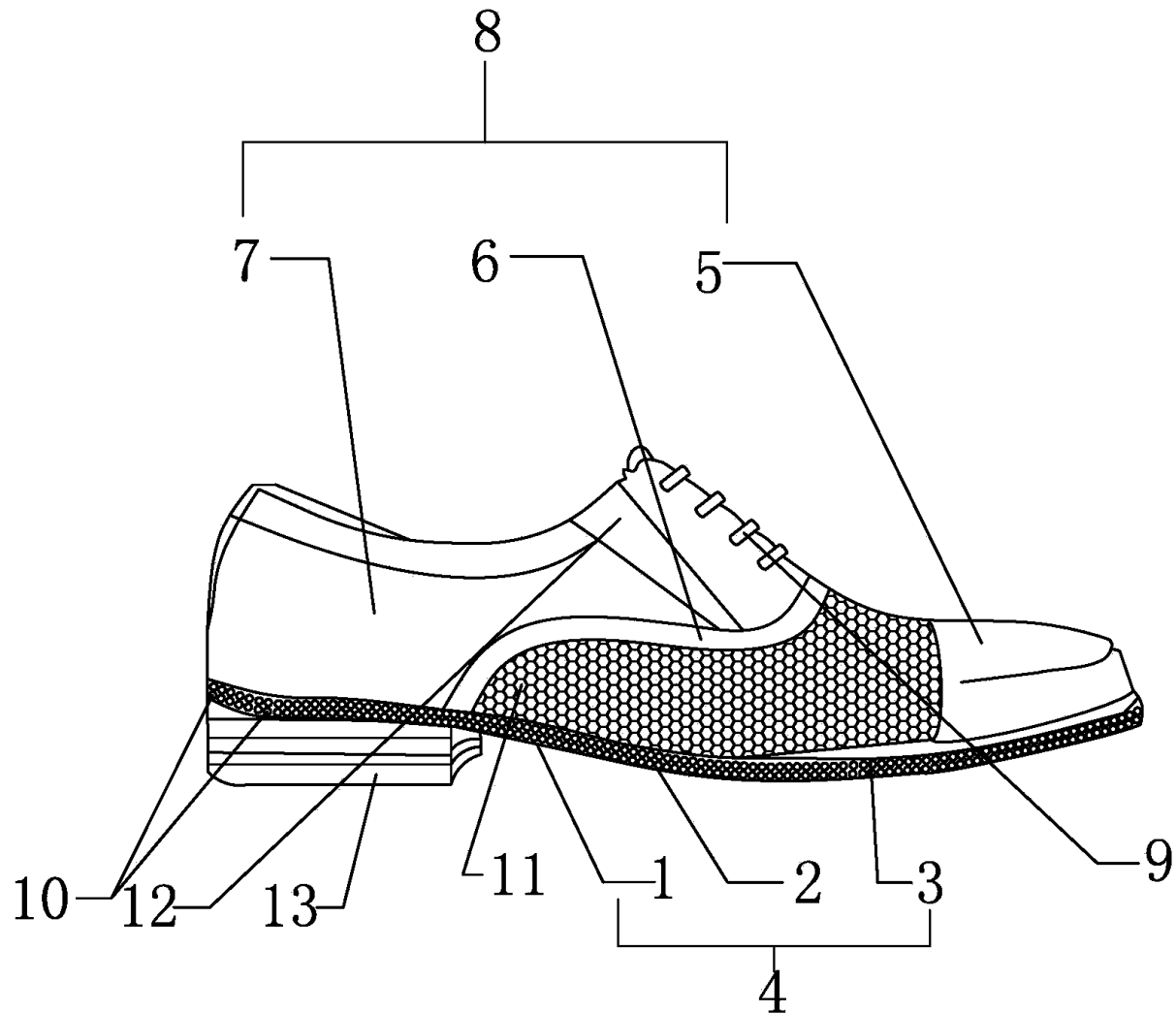
Family 355/432 - FAMPAT - ©Questel

Title

(CN203523892U)

Leather sandal

Images

**Publication data including kind & date**

CN203523892

U

2014-04-09

CN203523892U

**Abstract**

(CN203523892)

The utility model discloses a leather sandal and aims at providing the leather sandal which is simple in structure, capable of achieving the massaging effect with the built-in massaging feature and without being matched with a massaging pad, and high in comfort level. According to the technical scheme, the leather sandal comprises a sole, an upper connected to the sole and a heel installed on the sole. The upper comprises a toe cap portion, a welt portion and a vamp portion, and a shoelace is arranged on the vamp portion. The leather sandal is characterized in that the sole comprises a wear-resistance outer sole, a soft and comfortable lining and massaging layers arranged in the outer sole and the lining. According to the leather sandal with the design, the tense nerve of a soldier can be effectively relieved after the soldier receives intensive training all day, the massaging effect is good, and the leather sandal can effectively achieve the good comfort level performance without being matched with the massaging pad.

Inventors

WANG LONGTONG

WANG LONGSHU

WANG LONGHAI

WANG GAOFENG

Latest standardized assignees - inventors removed

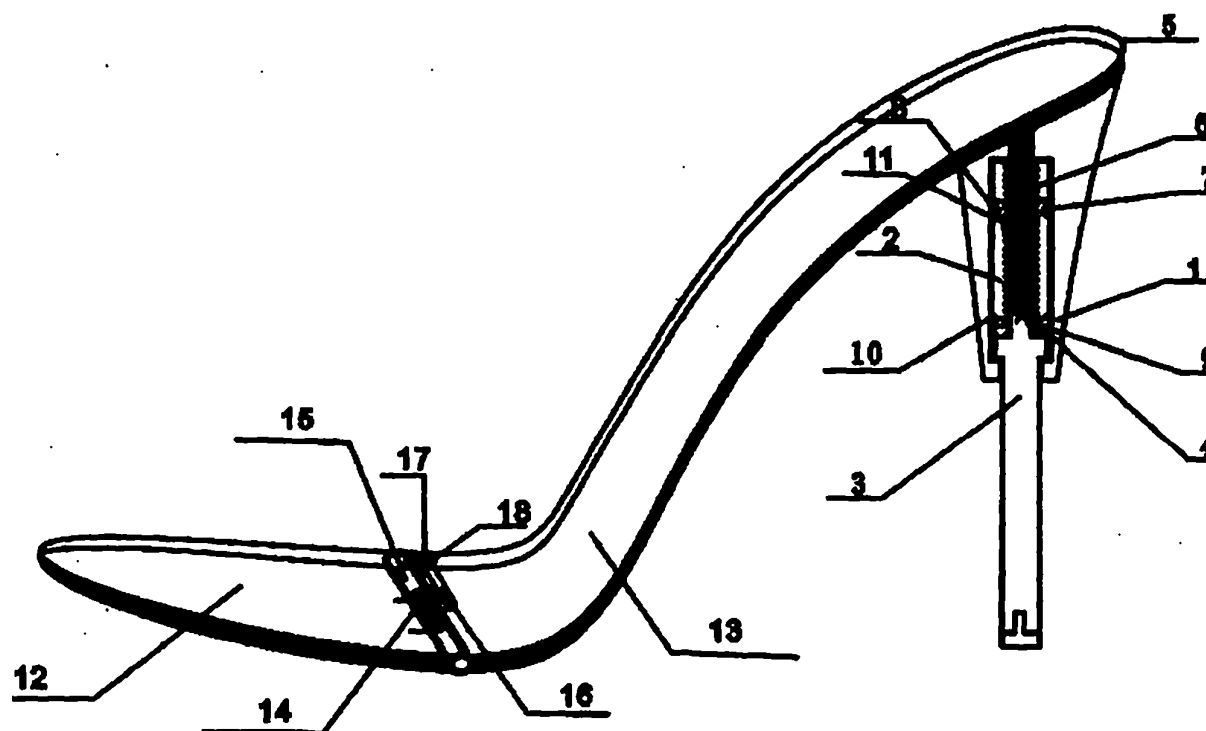
ZHEJIANG JINTANGLANG SHOES

Family 356/432 - FAMPAT - ©Questel

Title

(CN202680738U)

Novel telescopic shoe heel

Images**Publication data including kind & date**

CN202680738

U

2013-01-23

CN202680738U

**Abstract**

(CN202680738)

The utility model discloses a novel telescopic shoe heel and relates to an improvement of a shoe heel. The novel telescopic shoe heel comprises a heel sleeve (1), an upper heel column (2), a lower heel column (3), an axis pin (4), a fixing bolt (5), a telescopic spring (6), a position hole A (7), a position hole B (8), a position hole C (9), a position hole D (10), an S-shaped route (11), a front foot bottom (12), a rear foot bottom (13), a torsion spring (14), a central shaft (15), a latch (16), a position hole E (17) and a position hole F (18). The diameter of the upper heel column (2) is smaller than the heel sleeve (1), the upper end of the upper heel column (2) is arranged in the heel sleeve (1), and the axis pin (4) is linked with the top end of the lower heel column (3). When the shoe heel is in a shorten state, both ends of the axis pin (4) are arranged in the position hole A (7) and the position hole B (8). When the shoe heel is in an extension state, the both ends of the axis pin (4) are arranged in the position hole C (9) and the position hole D (10). The central shaft is connected between the front foot bottom and the rear foot bottom, the torsion spring is arranged inwards, the front portion of a shoe is changed by controlling the position of the latch so as to be adapted to change of height of the shoe heel and improve comfortable degree of the shoe.

Inventors

LIN JIANJIANG

XU XIANG

Latest standardized assignees - inventors removed

FOSHAN SATURDAY SHOES

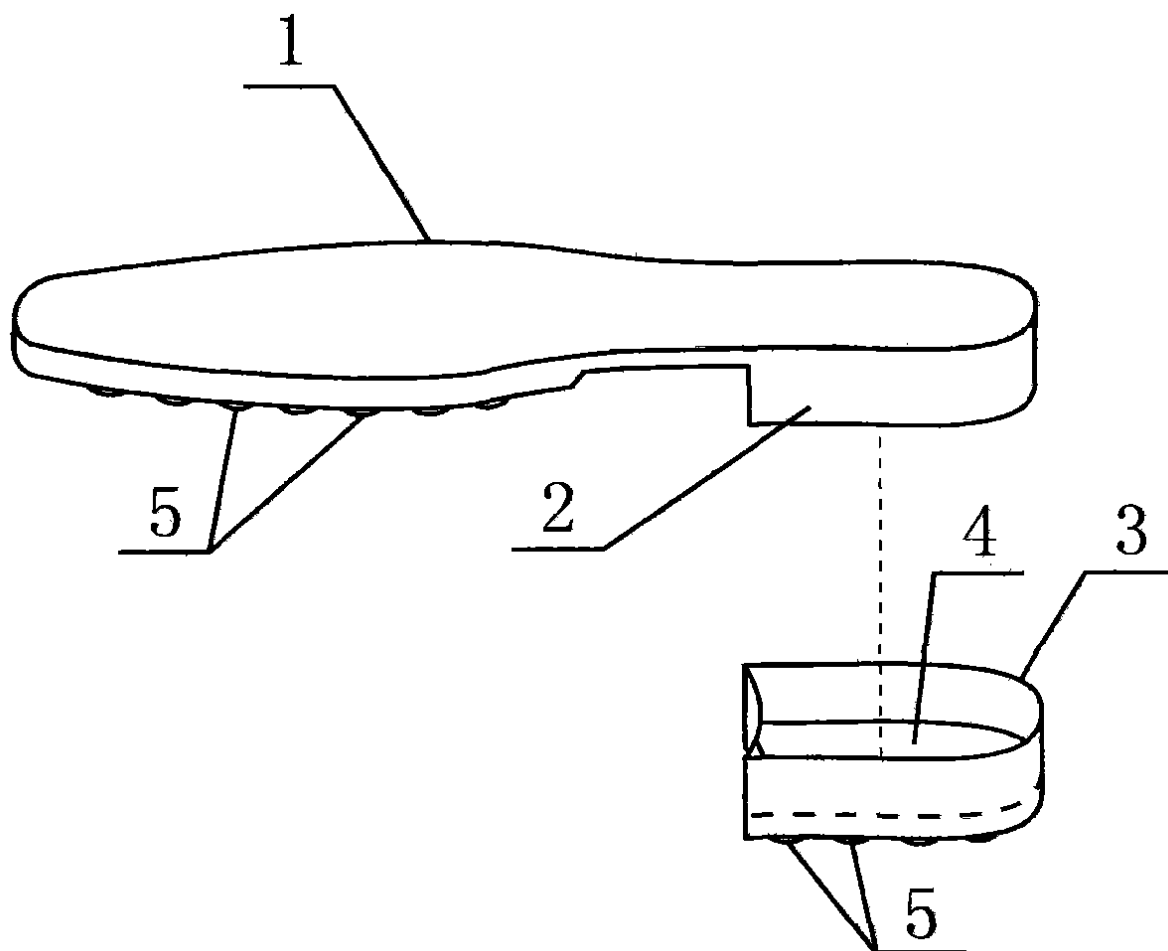
Family 357/432 - FAMPAT - ©Questel

Title

(CN201718596U)

Anti-skid sole

Images

**Publication data including kind & date**[CN201718596](#)

U

2011-01-26

CN201718596U

**Abstract**

(CN201718596)

The utility model discloses an anti-skid sole comprising a sole body, wherein protruding anti-skid spikes (5) are arranged on the bottom surface of the front half of the sole (1); a heel sleeve (3) is sleeved outside a heel (2) of the sole; protruding anti-skid spikes (5) are further arranged on the bottom wall (4) of the heel sleeve (3); and the heel sleeve (3) is in tight fit with the heel (2).

Inventors

LIN SHAOHUA

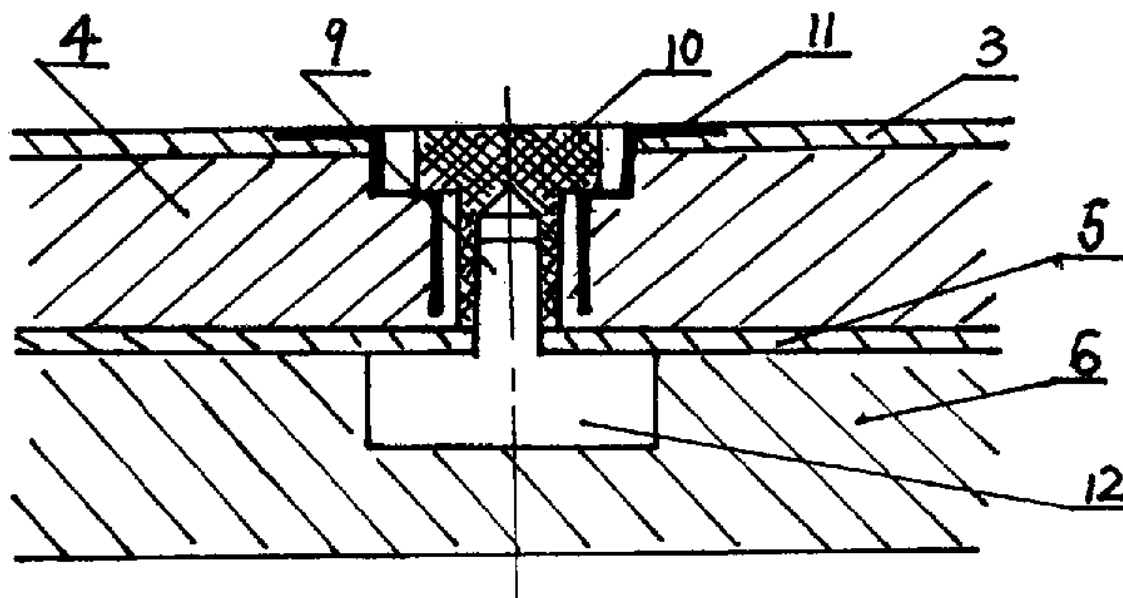
Family 358/432 - FAMPAT - ©Questel

Title

(CN2279819U)

Quick replaced heel

Images

**Publication data including kind & date**[CN2279819](#)

Y

1998-04-29

CN2279819U

**Abstract**

(CN2279819)

The utility model relates to a heel replaced quickly, which is composed of an original bottom, a replaceable heel and a connector. The original bottom and the replaceable heel are movably connected through the connector. The utility model can quickly replace the back heel of shoes which is anamorphic because of wear out; the beautiful appearance of the shoes can be recovered. The utility model has the advantages of simple structure, convenience and practicability.

Inventors

YAN JIE

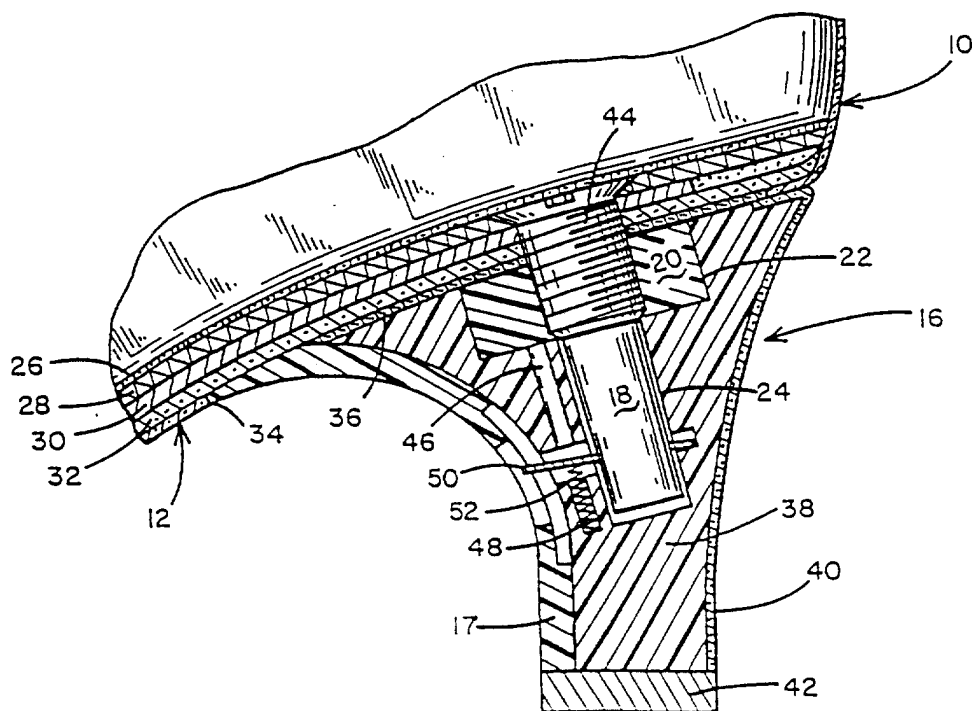
Family 359/432 - FAMPAT - ©Questel

Title

(CN1110538)

Shoe with changabe heel

Images

**Publication data including kind & date**[CN1110538](#)

A

1995-10-25

CN1110538

**Abstract**

(CN1110538)

The shoe comprises upper and exchangeable heel. Said upper has bottom board connected with axle or bolt extending outward. Said heel has a central hole for holding said bolt. A locking mechanism can prevent separation of upper from heel. A regulating element and an align slot are provided for preventing relative rotation between upper and heel.

Inventors

SAWICK Y. GORDONBURG

Latest standardized assignees - inventors removed

CHAVEA

Family 360/432 - FAMPAT - ©Questel

Title

(JP05091407U)

Removable heel of the shoe

Publication data including kind & date[JPH0591407](#)

U

1993-12-14

JP05091407U

**Abstract**

(JPH0591407)

[An eye] is the idea, the installation tool is removably attached to the heel of the shoe portion, the heel can be easily attached to the present invention. Of the main body of (1) the shoe heel portion [electro-] of threads are assigned to fit the fitting (2) screw (2) screws attach the heel (3) thereof are provided. Configured as above, the removable heel of the shoe.

Inventors

Takashi Morishita sum

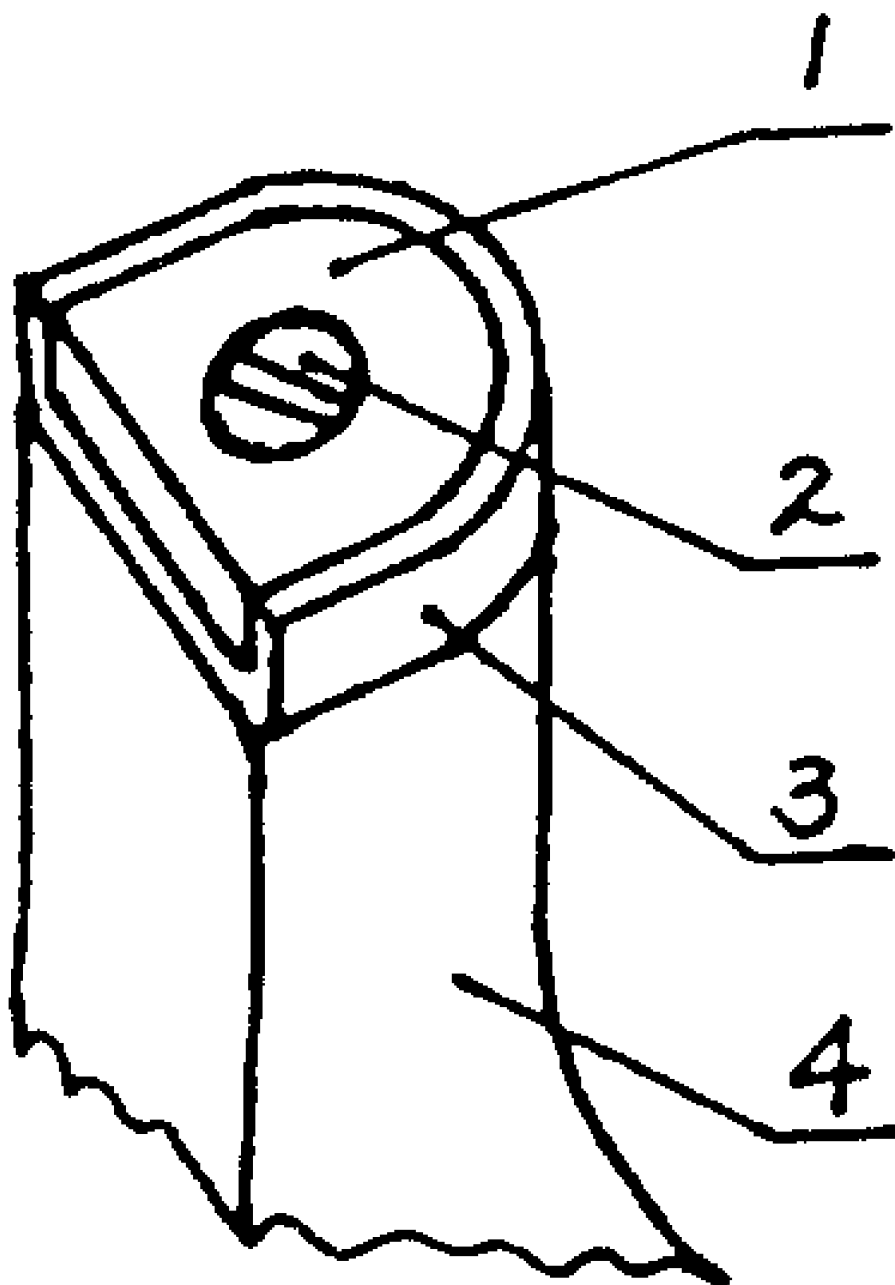
Family 361/432 - FAMPAT - ©Questel

Title

(CN87211720U)

Self change-able ornament sole for lady high heel shoes

Images

**Publication data including kind & date**

[CN87211720](#) Y 1989-03-01 CN87211720U

[CN87211720](#) U 1988-05-11 CN87211720U

**Abstract**

(CN87211720)

The utility model discloses self changeable ornament sole for lady high heel shoes, comprising retention plates (3) and shoe soles (1). The surfaces of the retention plates (3) are provided with flutes, the shape of the flutes can be a straight concave or a dovetail, and the shoe soles (1) which can be made of rubber, nylon, plastic are also arranged on the retention plates (3). The retention plates (3) are fixed on the heels by small nails, the shoe soles (1) are foxed on the heels by screws, so the shoe soles (1) can be conveniently changed after wearing.

Inventors

WANG PANCHENG

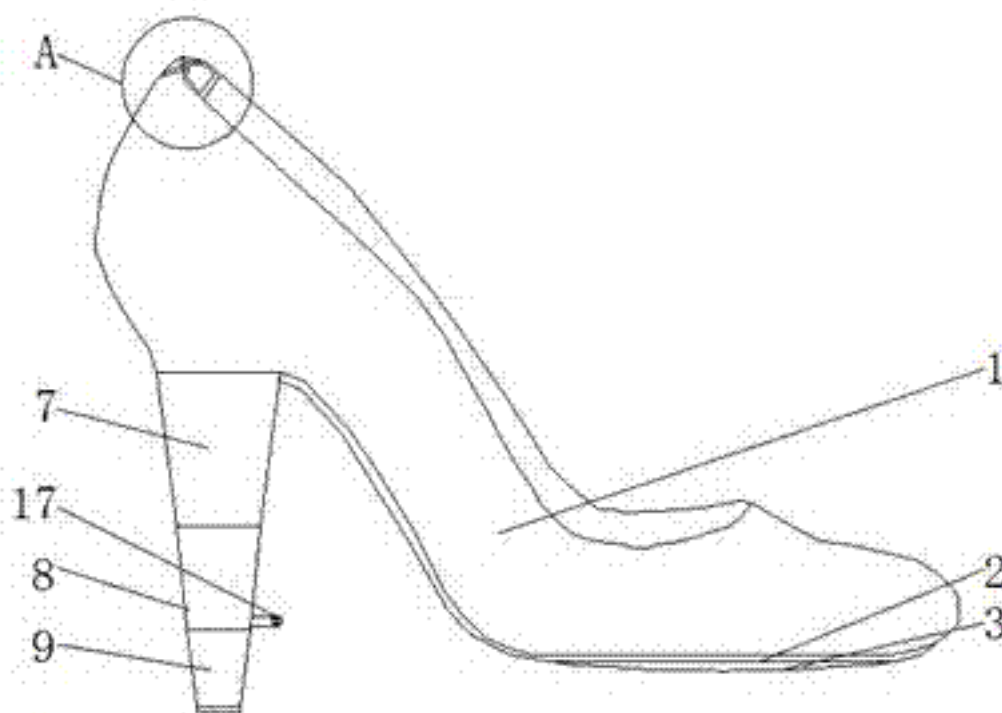
Family 362/432 - FAMPAT - ©Questel

Title

(CN208160184U)

High -heeled shoes convenient to height -adjusting prevents wear -resistingly

Images



Publication data including kind & date

[CN208160184](#)

U 2018-11-30 CN208160184U



Abstract

(CN208160184)

The utility model relates to the technical field of household items, and disclose a high -heeled shoes convenient to height -adjusting prevents wear -resistingly, including the shoes bodies, the lowerfixed surface of the shoes body is connected with soft sole, and the bottom fixedly connected with stereoplasm sole of soft sole, one side swing joint of the shoes body have a connecting band, and one side fixedly connected with of connecting band is located the composite pad of the internal portion of shoes, and composite pad's fixed surface is connected with silica gel pads, the first heel of bottom fixedly connected with, second heel and third heel on one side of the shoes body. This high -heeled shoes convenient to height -adjusting prevents wear -resistingly through setting up soft sole, stereoplasm sole, composite pad, connecting band, silica gel pad and wear -resisting piece, in the regulation through the connecting band, can adjust the back heel size of the shoes body to in satisfying the wide crowd of different feet, composite pad and silica gel pad reduce the heel adradability simultaneously, increase the comfort level, and then the life of stereoplasm sole and wear -resisting piece extension sole, thereby reach the purpose that the suitability is strong.

Inventors

LI SANSHAN

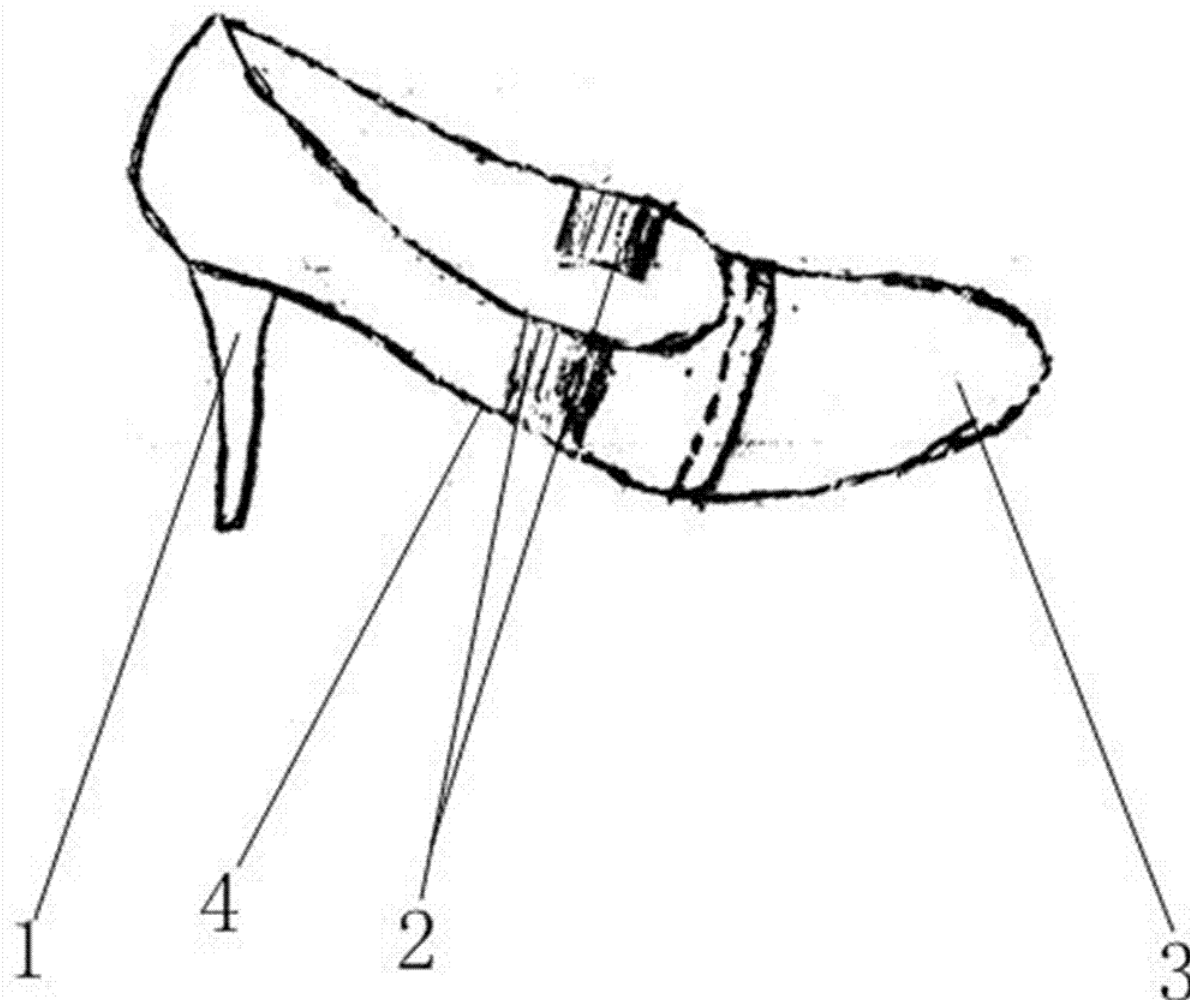
Family 363/432 - FAMPAT - ©Questel

Title

(CN207678922U)

Conversion structure for shoes two

Images

**Publication data including kind & date**[CN207678922](#)

U 2018-08-03 CN207678922U

**Abstract**

(CN207678922)

The utility model provides a conversion structure for shoes two, including women's clothing shoes body for the conversion of women's clothing shoes between high -heeled shoes form and dull and stereotyped calceiform attitude and fixed, transform structure includes angle adjusting rod, removable heel and locates the surface fabric iterative structure at shoes arch of foot position, the angle adjusting rod front end lies in palm department before the shoes and shoes arch of foot position is located to the rear end, when the women's clothing shoes need carry out the form conversion, to change the heel and make heeled height change, the angle adjusting rod unblock makes the surface fabric iterative structure can expand or be folding, the surface fabric iterative structure makes before the shoes palm keep the level gesture that lands through changing its folding range, and when the form of women's clothing shoes need be fixed, angle adjusting rod locked the messenger the coincide or the development condition of surface fabric iterative structure are locked, this product can let women's clothing shoes quick switching between high -heeled shoes form and dull and stereotyped calceiform attitude fixed.

Inventors

LÜ YIN
YI QIZHONG
MING YUXI
LI SHUAI
LIN QIN

Latest standardized assignees - inventors removed

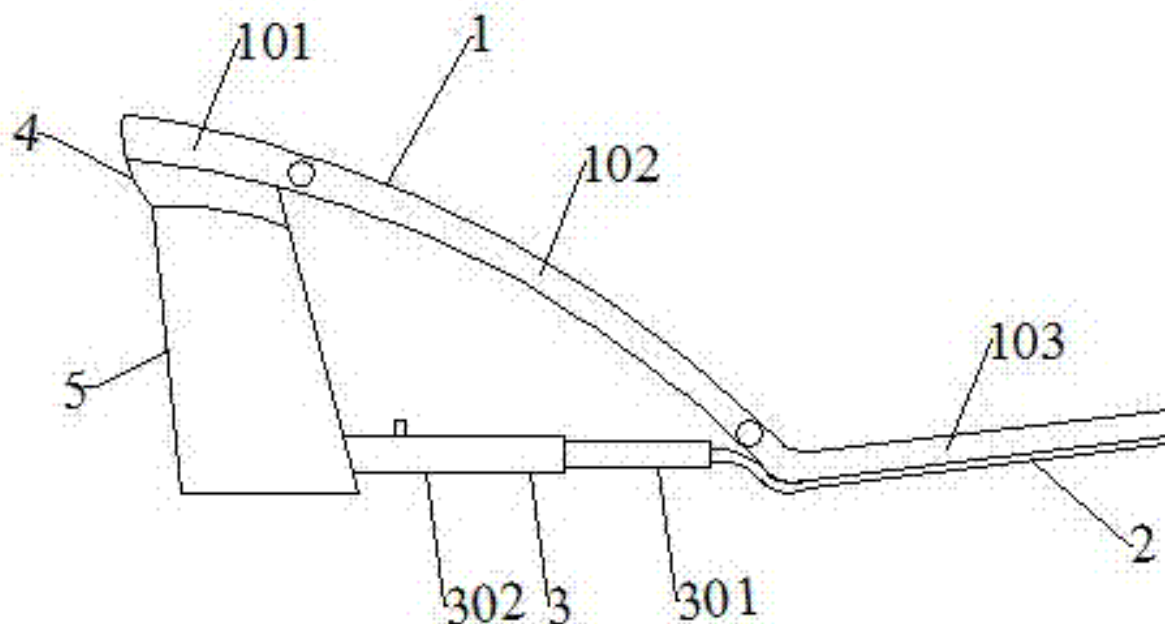
FUJIAN UNIVERSITY OF TECHNOLOGY

Family 364/432 - FAMPAT - ©Questel

Title

(CN207461523U)

Shoes of adjustable change of heel

Images**Publication data including kind & date**

[CN207461523](#)

U

2018-06-08

CN207461523U

**Abstract**

(CN207461523)

The utility model provides a shoes of adjustable change of heel, including insole, heel and the cladding vamp in the insole top, still include and go to the bottom and fastener, the insole includes sole portion, foot bow portion, heel region after to in proper order in the past, the sole portion in insole and the front end fixed connection who goes to the bottom, heel region's lower extreme can bedismantled with the top of heel and be connected, the bottom of heel and the rear end sliding connection who goes to the bottom. The utility model discloses an atress stability that the setting was gone to the bottom and has been improved high -heeled shoes, the utility model discloses a heel is removable, has better practicality.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

ZHANG LIEPING

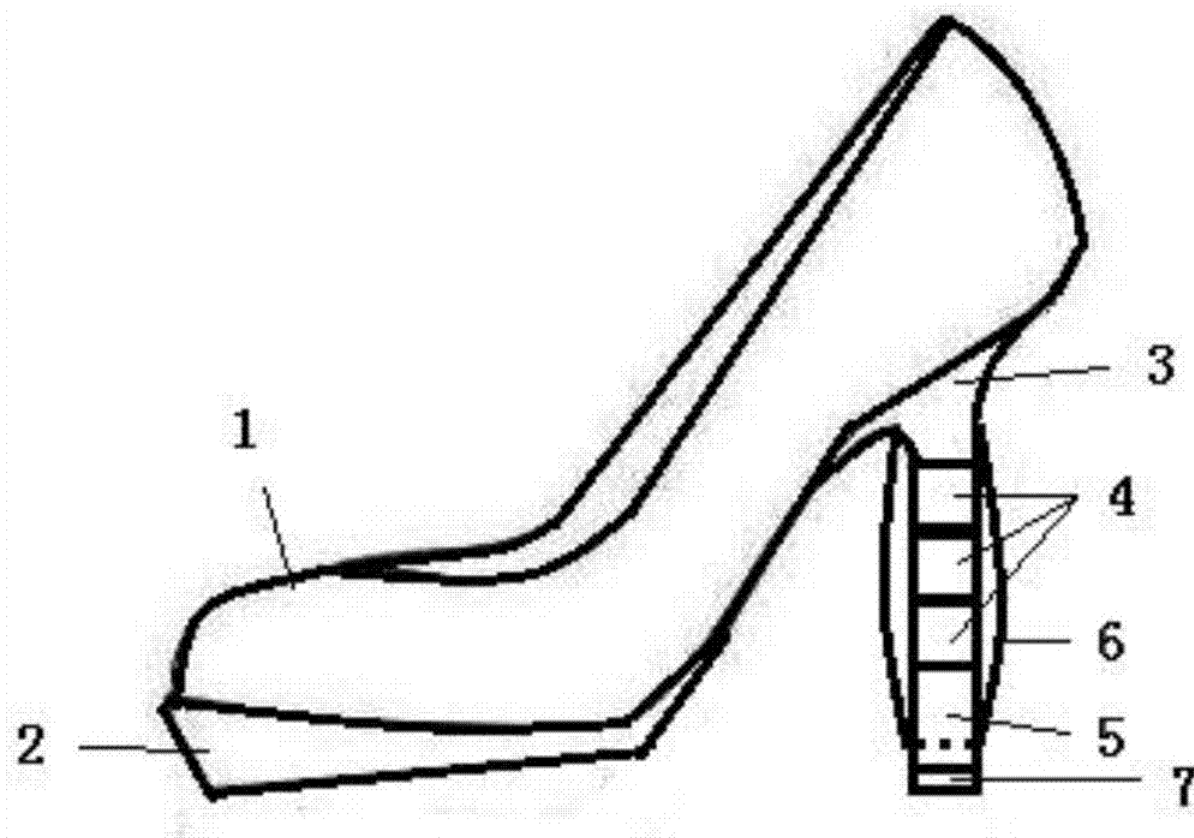
Family 365/432 - FAMPAT - ©Questel

Title

(CN206630084U)

Double -screw bolt concatenation formula high -heeled shoes

Images

**Publication data including kind & date**[CN206630084](#)

U

2017-11-14

CN206630084U

**Abstract**

(CN206630084)

The utility model discloses a double -screw bolt concatenation formula high -heeled shoes includes the shoes bodies at least, installs at the anterior shoe heel of the shoes body and install the heel at shoes body rear portion, its characterized in that: the heel includes first order heel, final stage heel, installs the more than one double -screw bolt between first order heel and final stage heel to and elastic fixation area, first order heel lower part cavity just is provided with the internal thread, the one end of double -screw bolt is provided with the external screw thread, and other end cavity just is provided with the internal thread, final stage heel upper portion is provided with the external screw thread, and the lower part is provided with the constant head tank that lets the elastic fixation area pass, elastic fixation area pass the final stage heel the constant head tank and both ends fix first order heel side, first order heel, double -screw bolt, final stage heel loop through screw thread seamless connection to take fixedly by elastic fixation. The height of these high -heeled shoes can be adjusted in a flexible way to the reply women is in the different demands to the high -heeled shoes height of different occasions.

Inventors

QIN MANQING

LIU XUEGAN

DAI QIFAN

Latest standardized assignees - inventors removed

CHINA UNIVERSITY OF GEOSCIENCES

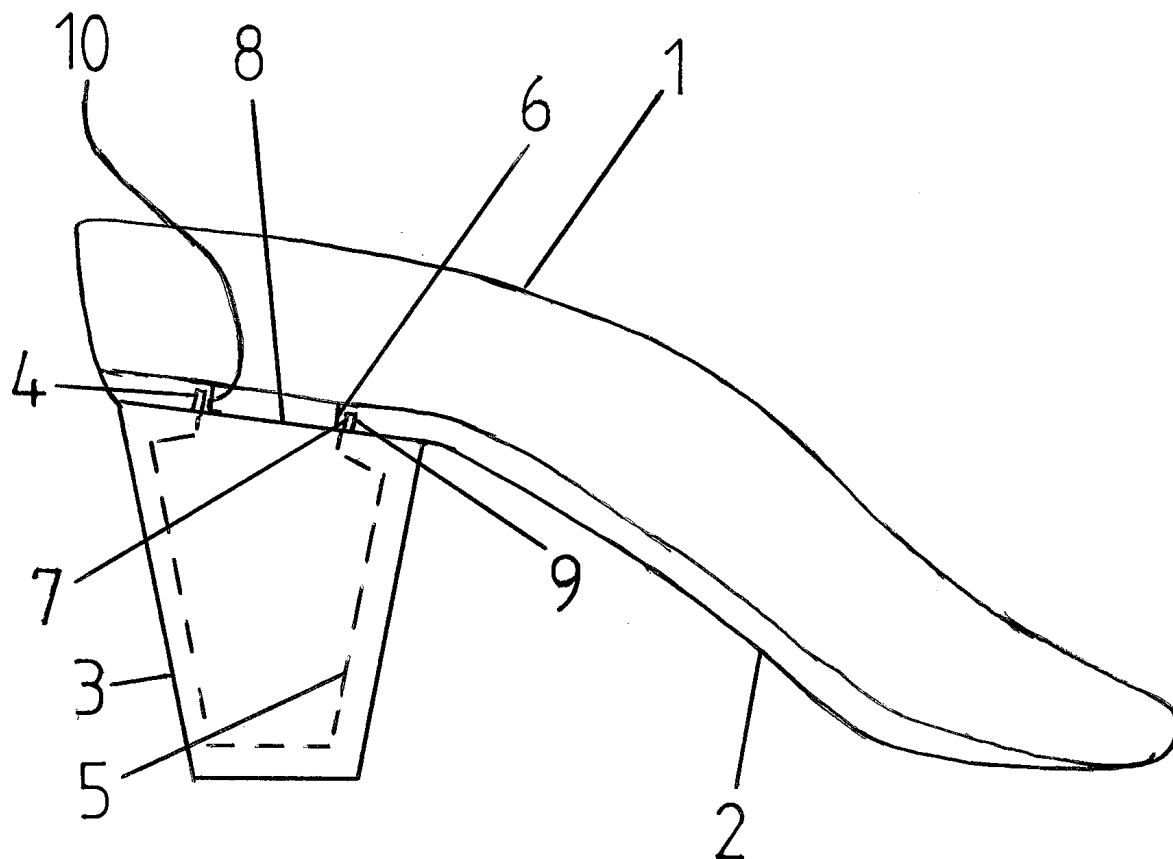
Family 366/432 - FAMPAT - ©Questel

Title

(DE102016205731)

Shoe

Images

**Publication data including kind & date**[DE102016205731](#)

B3 2017-03-30

DE102016205731

**Abstract**

(DE102016205731)

Shoe complete recovery with respect function in occurrence of defect of the shoe is a shoe with a shaft (1) and a shoulder (3) having bottom (2) is provided, wherein between the shoulder (3) and a remaining part of the (2) base and the shaft (1) coupling means for (4) reversibly - and decoupling of the (3) shoulder relative to the remainder of the floor (2) or of the shaft (1) and wherein the shoulder (3) receiving area (5) having shoe replacement for storage.

Inventors

WILLE MAXINE

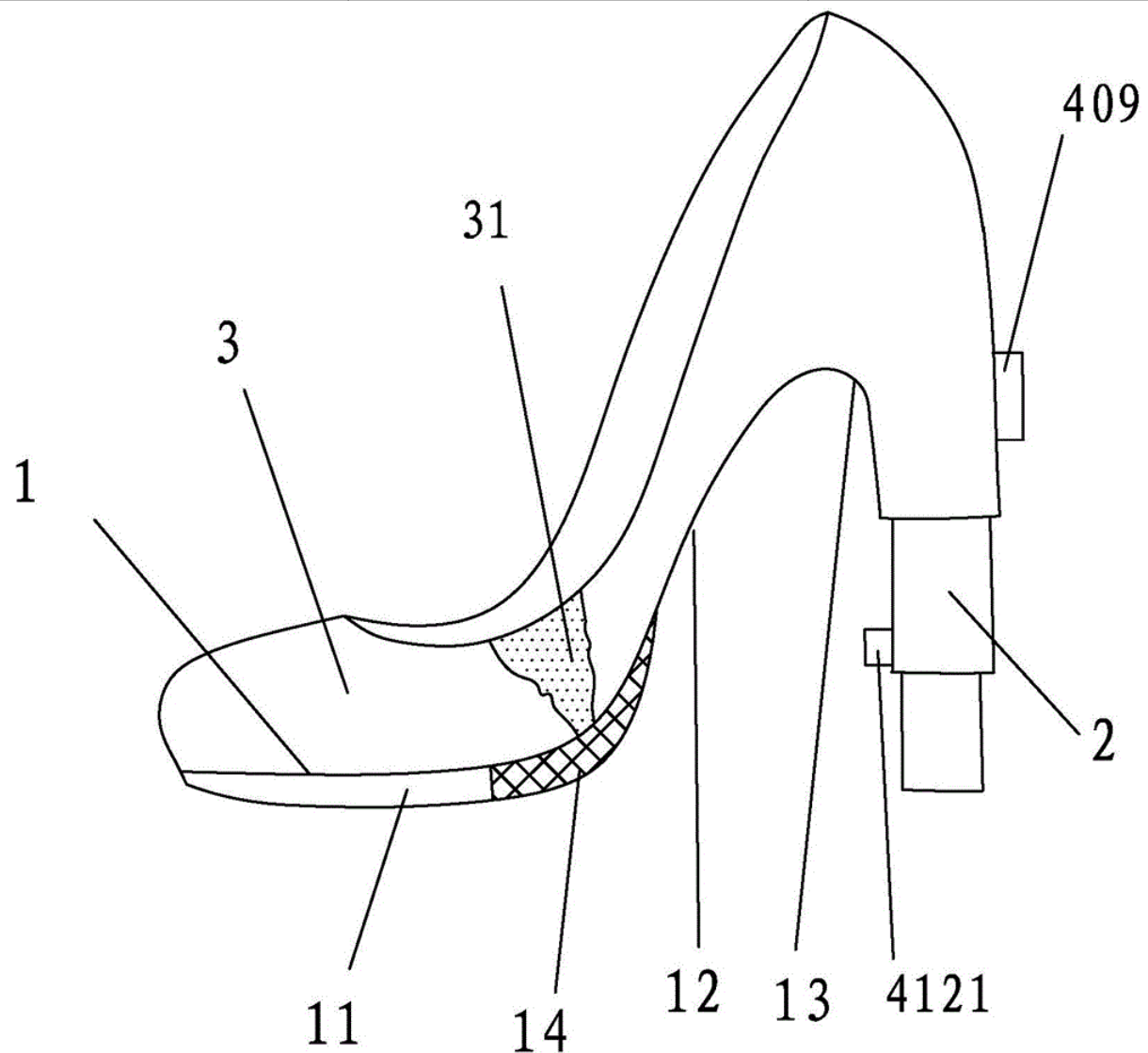
Family 367/432 - FAMPAT - ©Questel

Title

(CN205757576U)

Liftable high -heeled shoes

Images

**Publication data including kind & date**

CN205757576

U

2016-12-07

CN205757576U

**Abstract**

(CN205757576)

The utility model discloses a liftable high-heeled shoes has sole and heel, the heel is equipped with the lifting adjusting device of adjustable heel height. Lifting adjusting device is hydraulic jack, pressure bar or spiral lifter. After above - mentioned structure, the utility model relates to a liftable high-heeled shoes, the multifunctionality of coming the nimble heeled height who adjusts liftable high-heeled shoes, realization high-heeled shoes through hydraulic jack, pressure bar or spiral lifter for all have pertinent use height in different occasions with the pair high-heeled shoes, the practicality improves greatly.

Inventors

CHEN HUICONG

Latest standardized assignees - inventors removed

QUANZHOU FANTEXI INTELLIGENCE TECHNOLOGY

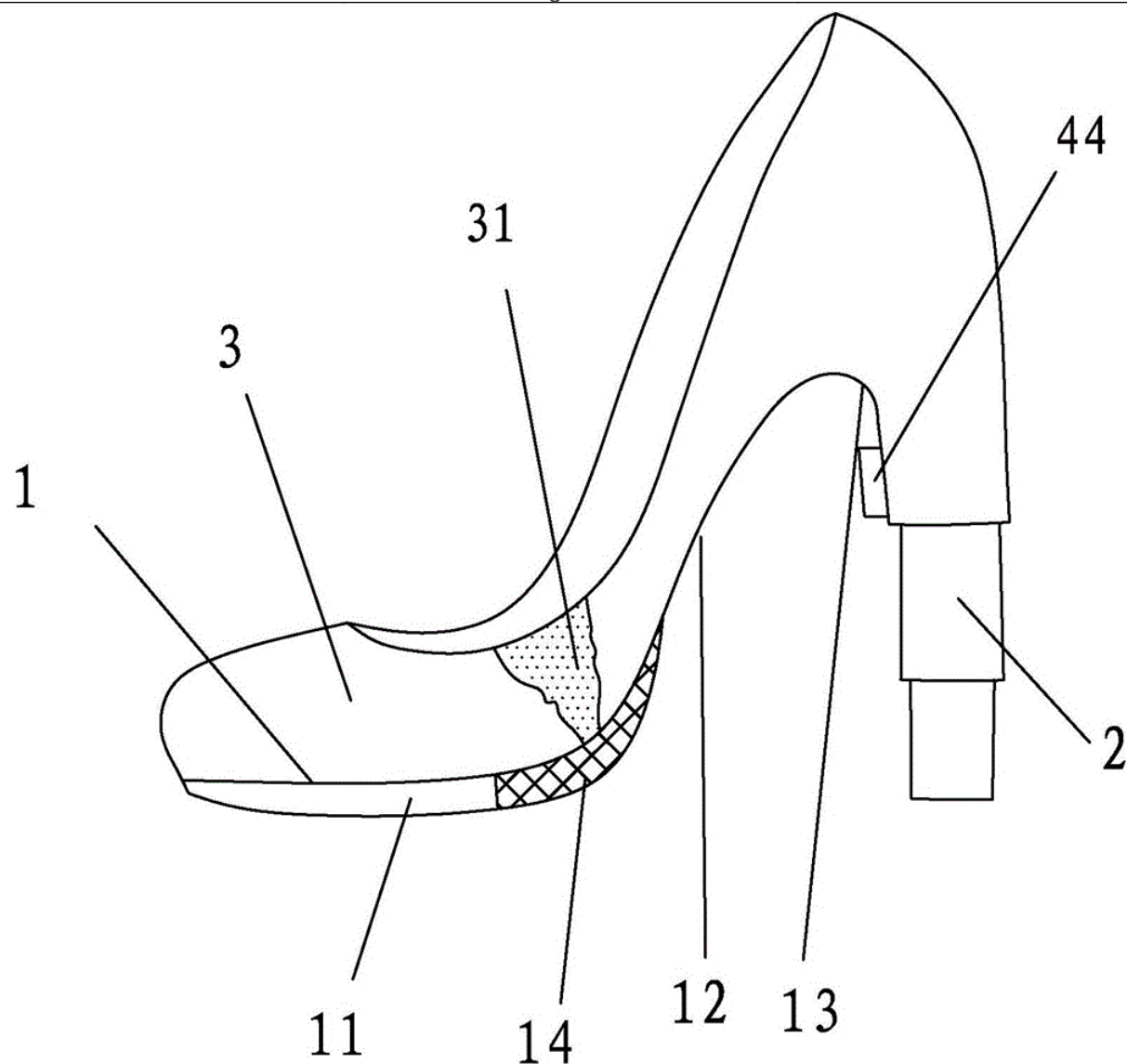
Family 368/432 - FAMPAT - ©Questel

Title

(CN205624735U)

Pressure bar adjusts formula high-heeled shoes

Images

**Publication data including kind & date**

CN205624735

U 2016-10-12 CN205624735U

**Abstract**

(CN205624735)

The utility model discloses a pressure bar adjusts formula high -heeled shoes has sole and heel, the heel is equipped with the lifting adjusting device of adjustable heel height, lifting adjusting device is pressure bar. After above -mentioned structure, the utility model relates to a pressure bar adjusts formula high -heeled shoes, the multifunctionality of coming the nimble heeled height who adjusts high -heeled shoes, realization high -heeled shoes through pressure bar for all have pertinent use height in different occasions with the pair high -heeled shoes, the practicality improves greatly.

Inventors

CHEN HUICONG

Latest standardized assignees - inventors removed

QUANZHOU FANTEXI INTELLIGENCE TECHNOLOGY

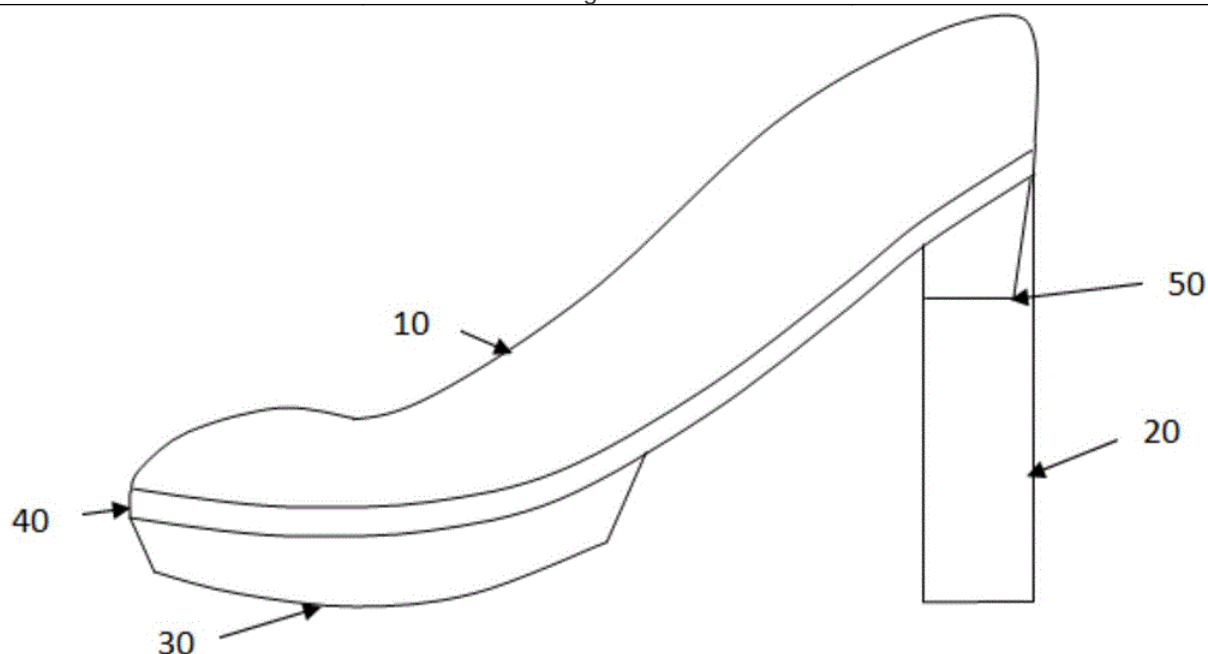
Family 369/432 - FAMPAT - ©Questel

Title

(CN205456414U)

High -heeled shoe

Images

**Publication data including kind & date**[CN205456414](#)

U

2016-08-17

CN205456414U

**Abstract**

(CN205456414)

The utility model relates to a high -heeled shoe, including vamp, sole and heel, high -heeled shoe still includes: fix with detachable connection mode the waterproof platform of sole is fixed waterproof platform on the sole rather than the sunken parts of assorted through the salient parts and the sole of waterproof bench setting, high -heeled shoe is still including being used for the installation the heel seat of heel is fixed the heel on the heel seat through recess on the heel seat and engagement member to utilize the elasticity press device that sets up to take off the heel from the heel seat on the heel seat. The utility model has the advantages of can change heel and waterproof platform at any time, need not any instrument, have swift convenience. The person of dress can be based on the heel and the waterproof platform of attending different occasions and changing different styles, reduce cost, more economic environmental protection simultaneously.

Inventors

LIN YUCHUN

Latest standardized assignees - inventors removed

CHENGDU AIMIQI SHOES INDUSTRY

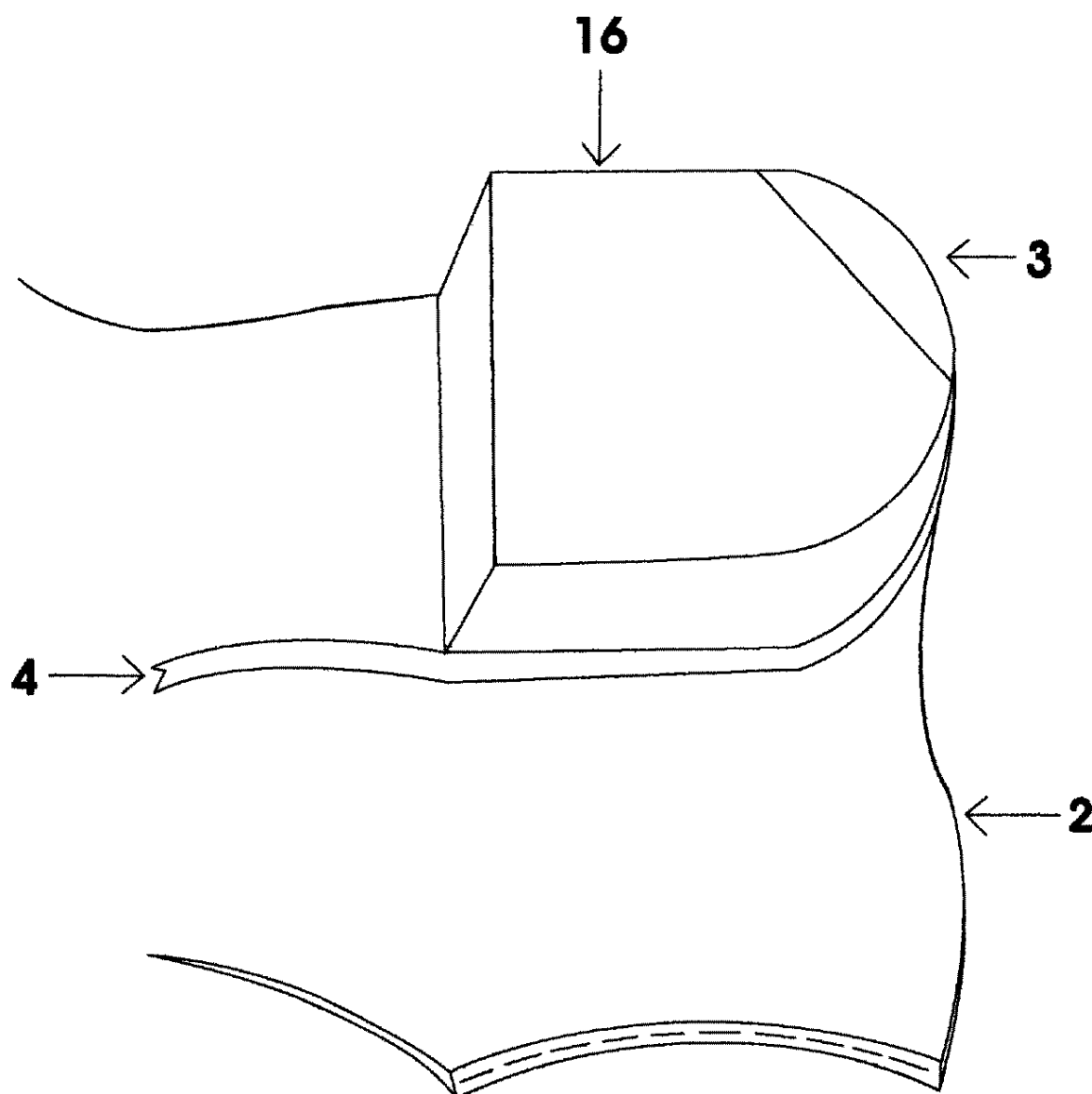
Family 370/432 - FAMPAT - ©Questel

Title

(KR200243308U)

Matrix type exchangeable shoesheel

Images

**Publication data including kind & date**

KR200243308

Y1 2001-10-08

KR200243308U

**Abstract**

(KR200243308)

This invention relates to a shoe sole or heel of a shoe wears only a portion of the cap used interchangeably worn in combination with a heel for exchange (mother and child) in the form of the present invention

Fig. 1 I according to the inside of a person carrying signal as an integral shoe attached to the shoe sole (4) or heel (16) of the shoe in the cap in combination with a heel (Fig. 2) in the form of a (mother and child) produced by the shoe sole (4) or heel (16) and the shoe is worn away integral consumption only if the replacement timing can easily exchange consumed parts (3) used for the exchange chalk heel (5) cap may be combined with a heel (motherhood) for exchange is provided.

[Index]

Integrated shoe sole, shoe heel, the combination hat (mother and child), parent (mother) for fixing the heel, the heel of the user (child), now (<EMI FILE="112001507928433-utm00018.tif" HE="5" ID="1" IMF="TIFF" WI="5"/>) home, ohms (Ω) type axis,

Inventors

AHN, KWAN HO

Family 371/432 - FAMPAT - ©Questel

Title

(EP3160281)

Heel-protecting device, heel-protecting system, and heel-protecting device assortment

Images

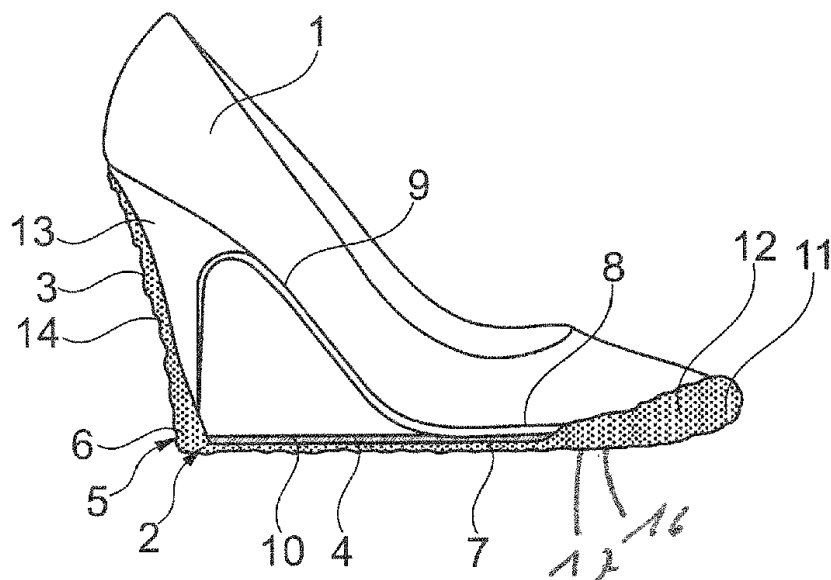


Fig. 1

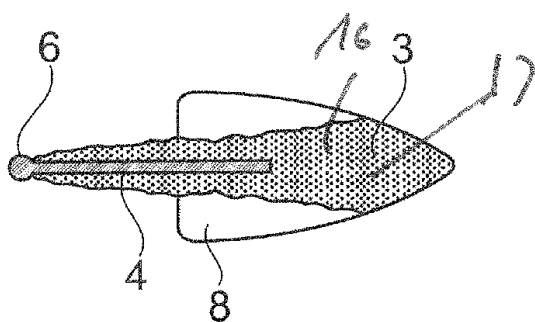


Fig. 2

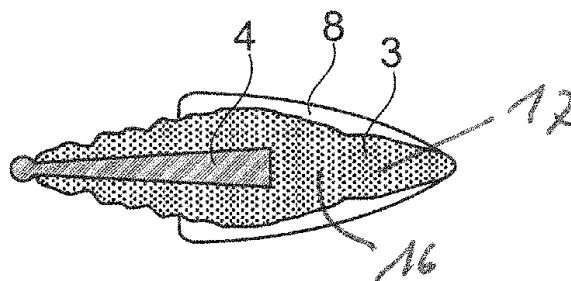


Fig. 3

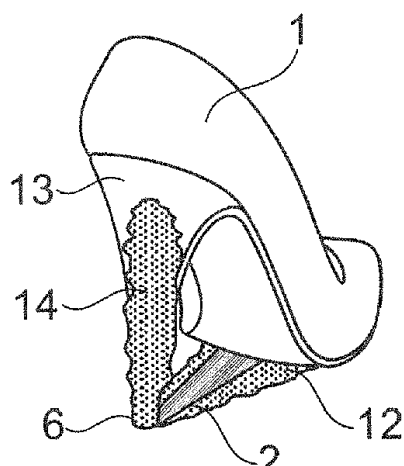


Fig. 4

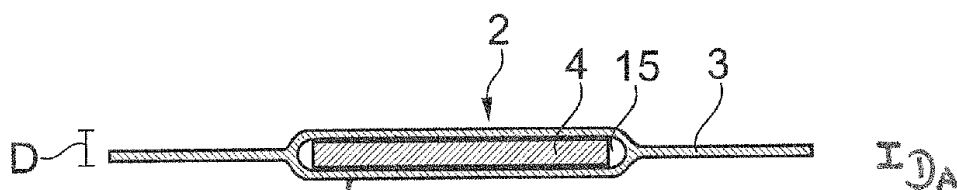


Fig. 5

Publication data including kind & date

EP3160281	B1	2019-02-27	EP3160281
EP3160281	A1	2017-05-03	EP3160281
DE102014108910	A1	2015-12-31	DE102014108910
WO2015/197676	A1	2015-12-30	WO2015197676

**Abstract**

(EP3160281)

The invention relates to a heel-protecting device (2) for shoes (1) having a heel (6) and having a sole (8) spaced apart from the heel (6) in the direction of a shoe longitudinal extent, preferably for high-heeled shoes having a stiletto heel, comprising supporting means (4) for enlarging the stepping surface (17) of the heel (6) of the shoe (1), which supporting means comprise a heel-supporting segment (5) for the heel (6), a sole-supporting segment (7) for the sole (8), and a connecting segment (10), which connects the heel-supporting segment (5) and the sole-supporting segment (7) to each other, preferably integrally, along the shoe longitudinal extent in order to bridge the distance between the heel (6) and the sole (8), wherein the heel-protecting device (1) has fastening means (3) associated with the supporting means (4) for detachably fastening the supporting means (4) to the shoe (1), wherein the supporting means (4) are more rigid than the fastening means (3) and wherein the fastening means (3) comprise a front pocket (12) for surrounding a front shoe tip (11) of the shoe (1) and a rear pocket (14) for surrounding an upper (13) of the shoe (1), which upper bears the heel (6). According to the invention, the fastening means (3) can be elastically extended in the direction of the shoe longitudinal extent in a region forming a stepping surface (17) for contacting an underlying surface, the stepping surface (17) being simultaneously enlarged, in such a way that heel-protecting device (2) can be fastened to the shoe (1), in particular exclusively, by extending the fixing means (3) and placing the fixing means in tension between the front shoe tip (11) and the upper (13).

Inventors

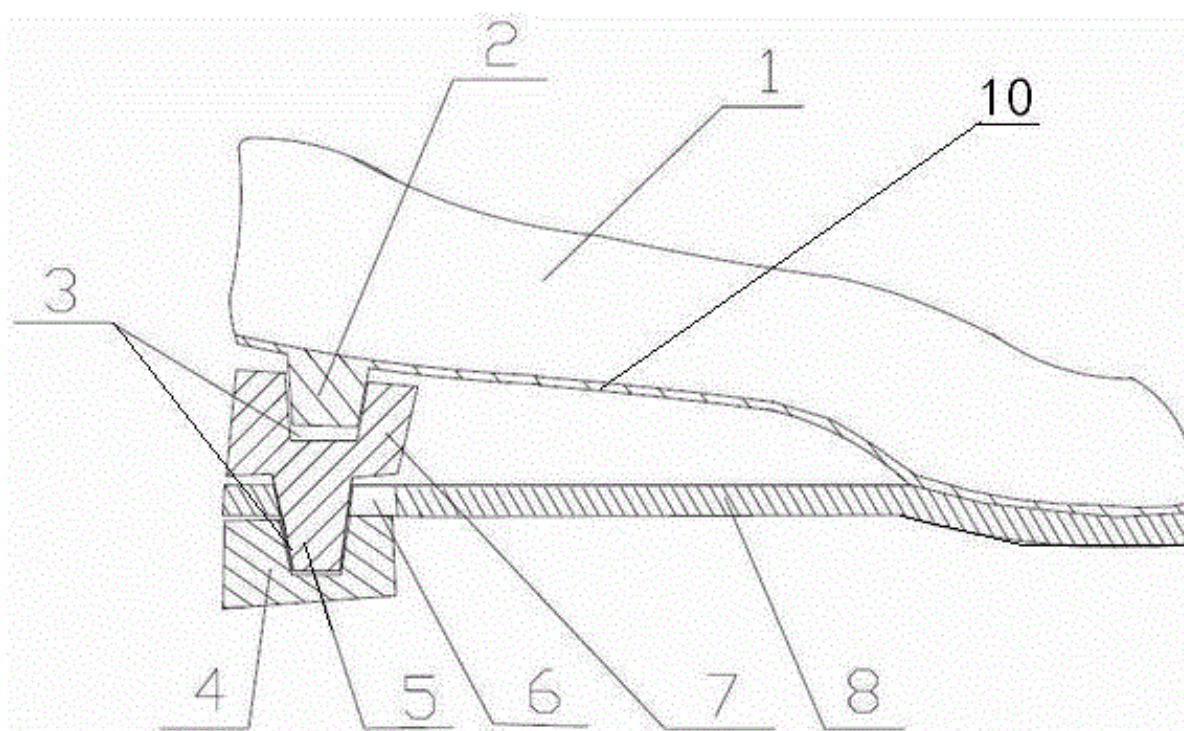
DOETSCH PETRA

Family 372/432 - FAMPAT - ©Questel

Title

(CN105054491)

High-heeled shoe with adjustable heel

Images**Publication data including kind & date**

[CN105054491](#)

B 2017-05-17 CN105054491B

[CN105054491](#)

A 2015-11-18 CN105054491

**Abstract**

(CN105054491)

The invention discloses a high-heeled shoe with an adjustable heel. A sole is composed of an upper flexible sole and a lower rigid sole, the front portion of the upper sole is fixedly connected with that of the lower sole, a rear heel is fixed at the rear end of the upper sole, a front through hole and a rear through hole which are matched with the rear heel are formed in the rear end of the lower sole, a female connecting groove identical with the rear heel in size and structure is formed in each of a bottom heel and the adjustable heel, a male connecting groove identical with the rear heel in size and structure is formed in the bottom of the adjustable heel, the rear heel penetrates the rear through hole of the lower sole and is inserted into the female connecting groove of the bottom heel to be fixedly connected with the bottom heel, or the rear heel is inserted into the female connecting groove of the adjustable heel, and then the male connecting groove of the adjustable heel penetrates the front through hole of the lower sole and is inserted into the female connecting groove of the bottom heel to be fixedly connected with the bottom heel. The high-heeled shoe can be in a medium-heel state and a high-heel state, and the bottom heel of the shoe and the front portion of the lower sole can be ensured to be in a same plane; elements like the adjustable heel and the bottom heel when losing effectiveness can be replaced conveniently at any time, so that service life of the shoe is prolonged greatly.

Inventors

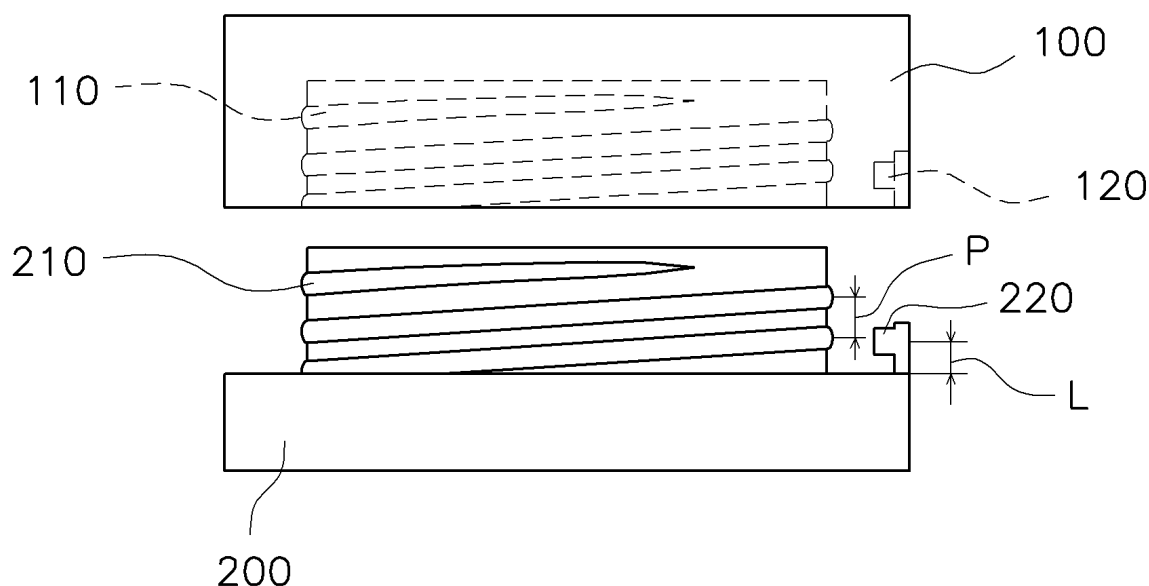
ZHANG RONGHUI

Family 373/432 - FAMPAT - ©Questel

Title

(KR101503296)

Shoes for changing heel

Images**Publication data including kind & date**[KR101503296](#)

B1 2015-03-19 KR101503296

**Abstract**

(KR101503296)

The present invention relates to shoes having replaceable heels. Particularly, the purpose of the present invention is to facilitate the replacement of a heel and prevent a replaced heel from being separated spontaneously by improving shoes having heels replaceable via male threads. The shoes (10) having heels (200) replaceable as the heels (200) are coupled

to bottom surfaces at the rear sides of outsoles (100) via male threads (110, 210), comprise: a concave groove (120) in a certain depth formed at the outsoles (100); a hanging protrusion (220) formed at the heels (200) to be inserted elastically into the concave groove (120), wherein the hanging protrusion (220) of the heels (200) is placed in the concave groove (120) of the outsoles (100) and is not separated spontaneously when the heels (200) are coupled to the outsoles (100). Therefore, wearer convenience and the marketability of the shoes can be maximized.

Inventors

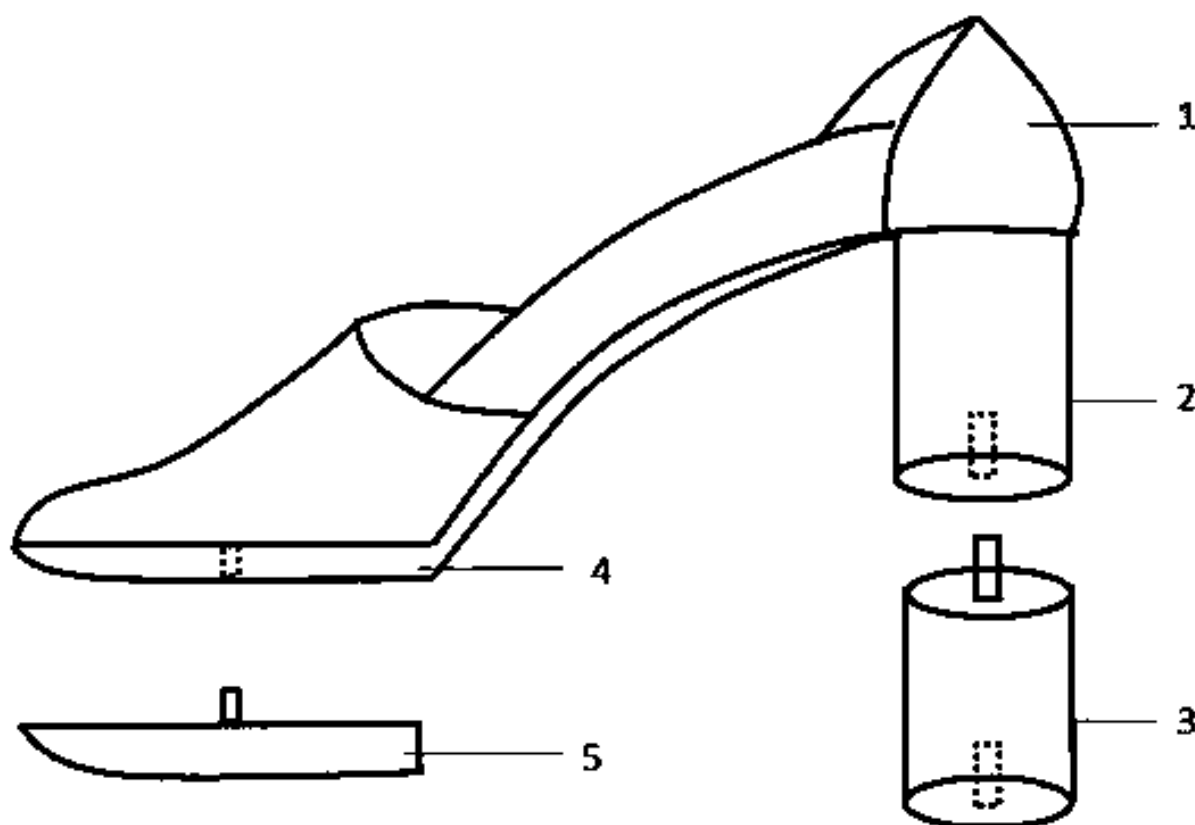
LEE, GYO JUN

Family 374/432 - FAMPAT - ©Questel

Title

(CN204181057U)

Heel height adjustable high-heeled shoes

Images**Publication data including kind & date**[CN204181057](#)

U

2015-03-04

CN204181057U

**Abstract**

(CN204181057)

The utility model relates to a pair of heel height adjustable high-heeled shoes. Each shoe comprises a shoe body, a heel and a slugged bottom, wherein the heel consists of an upper-end fixed heel and at least one movable heel, the fixed heel is connected with a shoe bottom, the at least one movable heel is connectedly arranged below the fixed heel through threads, and each two movable heels are fixedly connected through threads; the slugged bottom consists of a fixed slugged bottom and movable slugged bottoms in different heights, the fixed slugged bottom is connected with the shoe body, and the movable slugged bottoms in different heights are connectedly arranged below the fixed slugged bottom through threads. The same pair of shoes is applicable to different occasions, so that versatility in use is achieved; the movable heels and the movable slugged bottoms are replaceable after abrasion, and accordingly economic burden is greatly relieved for customers; the movable heels in different shapes can be freely selected to fit the shoe bodies so as to realize personalization.

Inventors

YANG WENJING

CAI ZENGHUI

JIA HONGZHI

ZHENG JIHONG

Latest standardized assignees - inventors removed

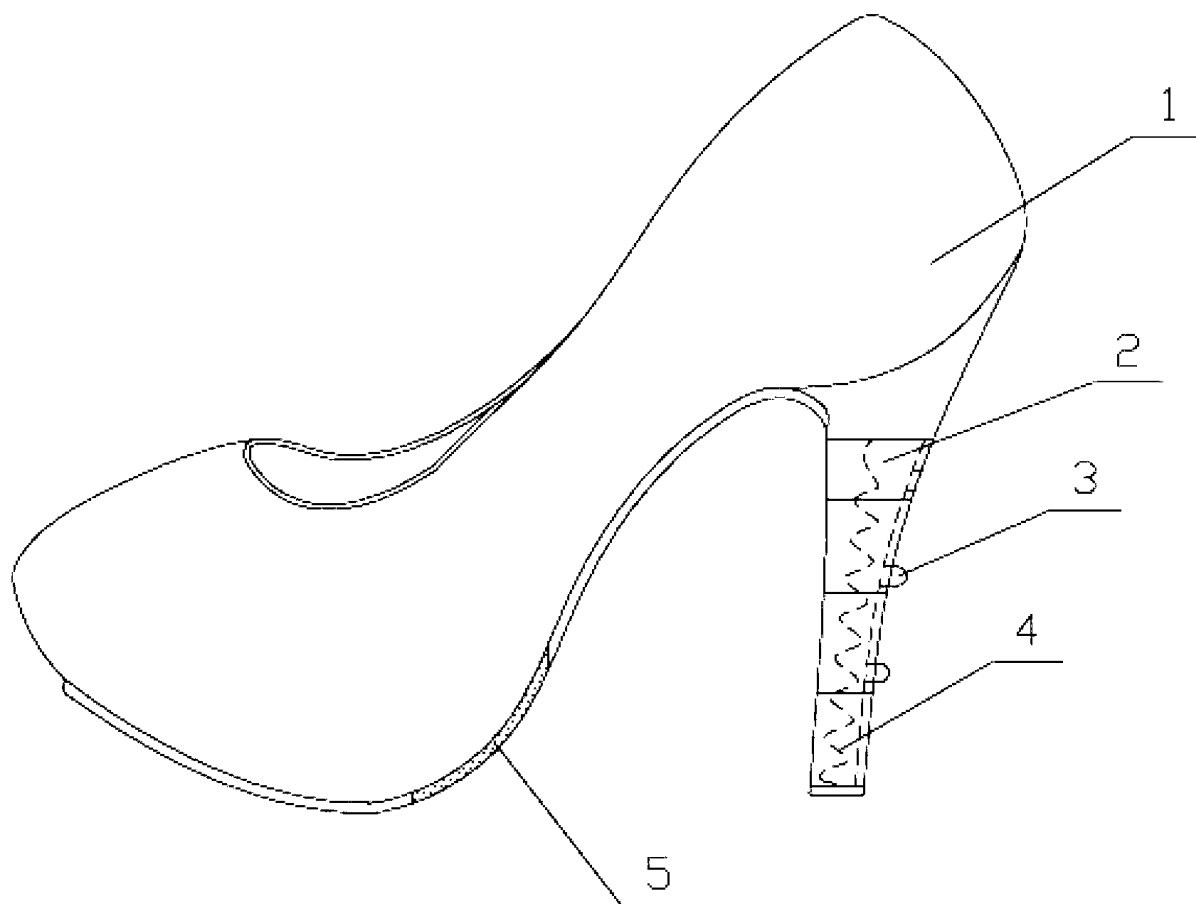
UNIVERSITY OF SHANGHAI FOR SCIENCE & TECHNOLOGY

Family 375/432 - FAMPAT - ©Questel

Title

(CN202774418U)

Height-adjustable heel shoe

Images**Publication data including kind & date**[CN202774418](#)

U

2013-03-13

CN202774418U

**Abstract**

(CN202774418)

The utility model relates to a height-adjustable heel shoe which comprises a shoe body and a telescopic shoe heel. The height-adjustable heel shoe is characterized in that the foot arch part at the bottom of the shoe body, which is in contact with the ground, is made of a flexible plastic material, so that the height of the shoe heel can be increased or reduced conveniently; a corrugated part is formed on the upper of the shoe body and in the position corresponding to the flexible plastic material, so as to reduce the tension stress on the shoe top caused by the height change of the shoe heel; and a telescopic spring is arranged in the telescopic shoe heel, and spring clamps and clamp notches engaged with the spring clamps are mounted to each segment of the telescopic shoe heel. The height-adjustable heel shoe has a simple and novel structure. The shoe heel is telescopic, and the shoe bottom and the shoe top are correspondingly modified, and the height of the shoe can be adjusted according to actual needs. The height-adjustable heel shoe is available in different heel thicknesses, and must be well accepted by most women.

Inventors

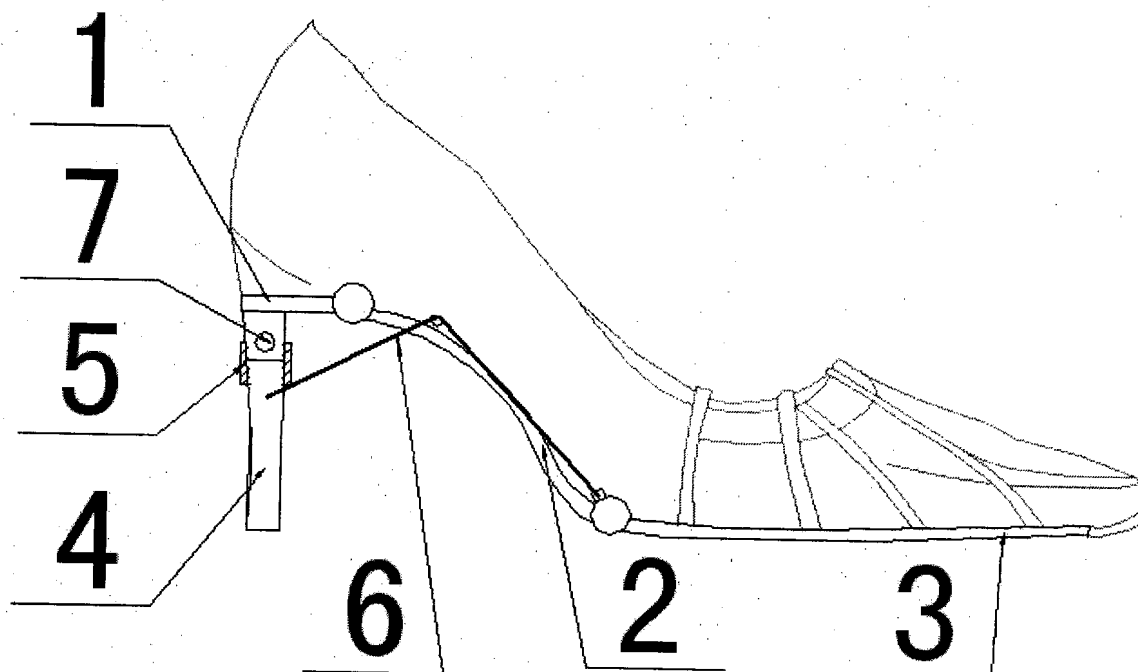
ZHANG YU

Family 376/432 - FAMPAT - ©Questel

Title

(CN102793338B)

Heal and sole linked adjustable high-heeled shoes

Images**Publication data including kind & date**

CN102793338	B	2015-01-07	CN102793338B
CN102793338	A	2012-11-28	CN102793338

**Abstract**

(CN102793338)

The invention provides a pair of heel and sole linked adjustable high-heeled shoes, belonging to the field of articles of everyday use. The high-heeled shoes comprise sole plates, arch plates, heel plates, movable heels, latches, thin steel ropes and bolts, wherein the arch plates, the sole plates and the heel plates are connected with one another by hinge connections with torsion springs, so that the arch plates, the sole plates and the heel plates are under the plane status when an external force is unavailable; flat ends of the movable heels are arranged into stand column grooves in the middle of the heel plates, so that the movable heels are rotatably folded to be the horizontal status along the length directions of the shoes, the thin steel ropes are fixed under the rotation places of the movable heels, the other ends of the thin steel ropes penetrate through small holes in the arch plates and are fixed on small force arms in the middle of the hinge type connections of the sole plates; after the shoes are assembled, when the movable heels are horizontal, the shoes are under the status of wedge heels or flats; when the shoes are pulled to straighten the high heels, the thin steel ropes are pulled to drive the arch plates and the sole plates to change the gradient relative to the movable heels at the same time, so that the gradient of the soles, the arches and the heels can be changed in linkage way and the physical comfort level of feet can be met when the height of the heels is adjusted; and the shoes are convenient to use, simple in structure, and low in cost.

Inventors

GU QUN

GU XIAOYE

Latest standardized assignees - inventors removed

HANGZHOU YANGGUO SICENCE & TECHNOLOGY

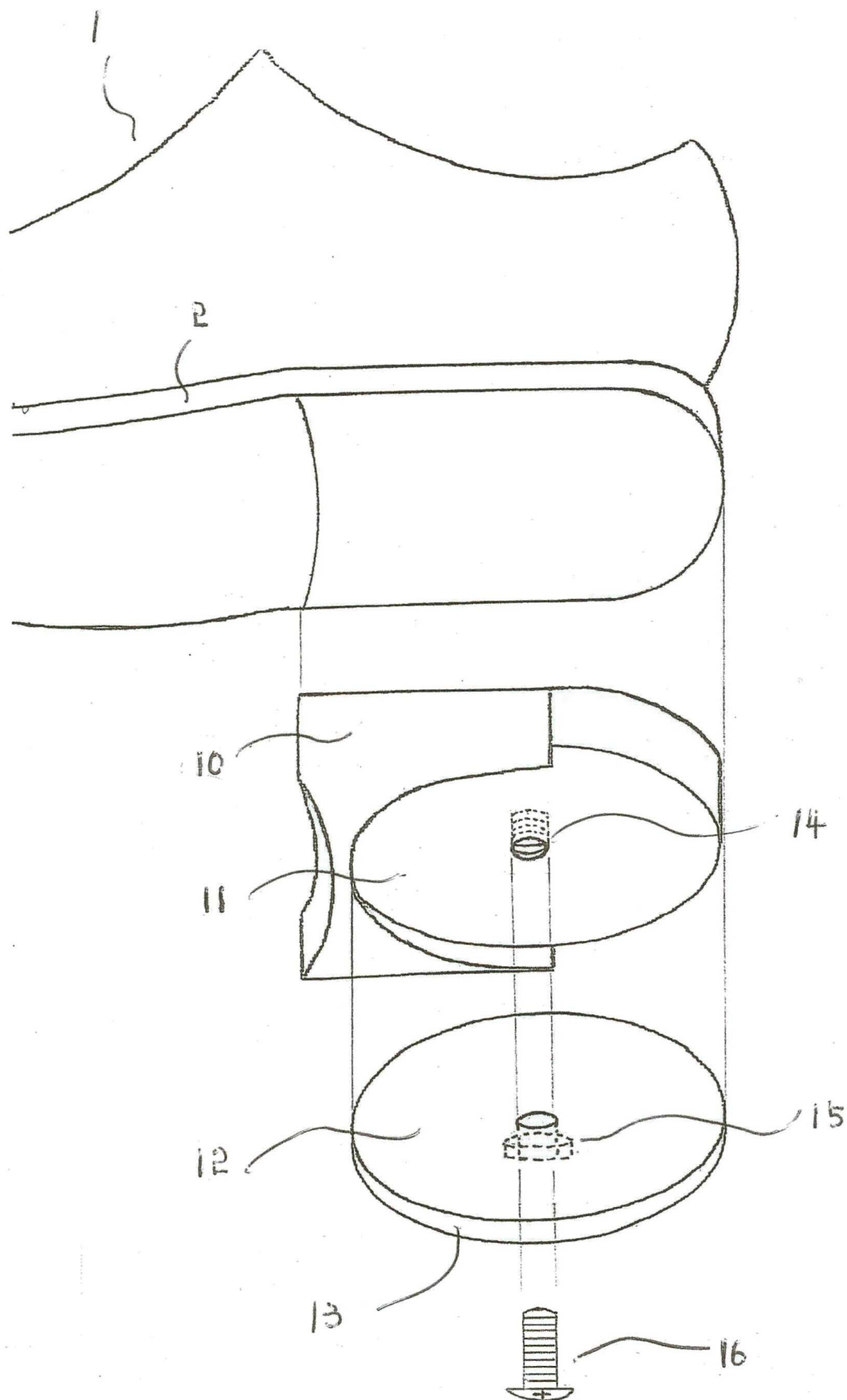
Family 377/432 - FAMPAT - ©Questel

Title

(KR20090009039U)

Shoe heel exchange of the round window

Images



Abstract

(KR20090009039)

The present invention relates to the use of the draver, a removable heel portion 3 ~ 4 times as much as the wear of the round window is used while being turned, can be easily exchanged and the round window, thereby extending the life of the shoe with the lowest production cost of the present invention aims.

The center of the circular cutting shoe (11) heel (10) and the internal thread portion (14) is formed, the center of the heel body (10) and passes through the screw groove (15) 7m/m (13) of a thickness comprised of a circular window.

Inventors

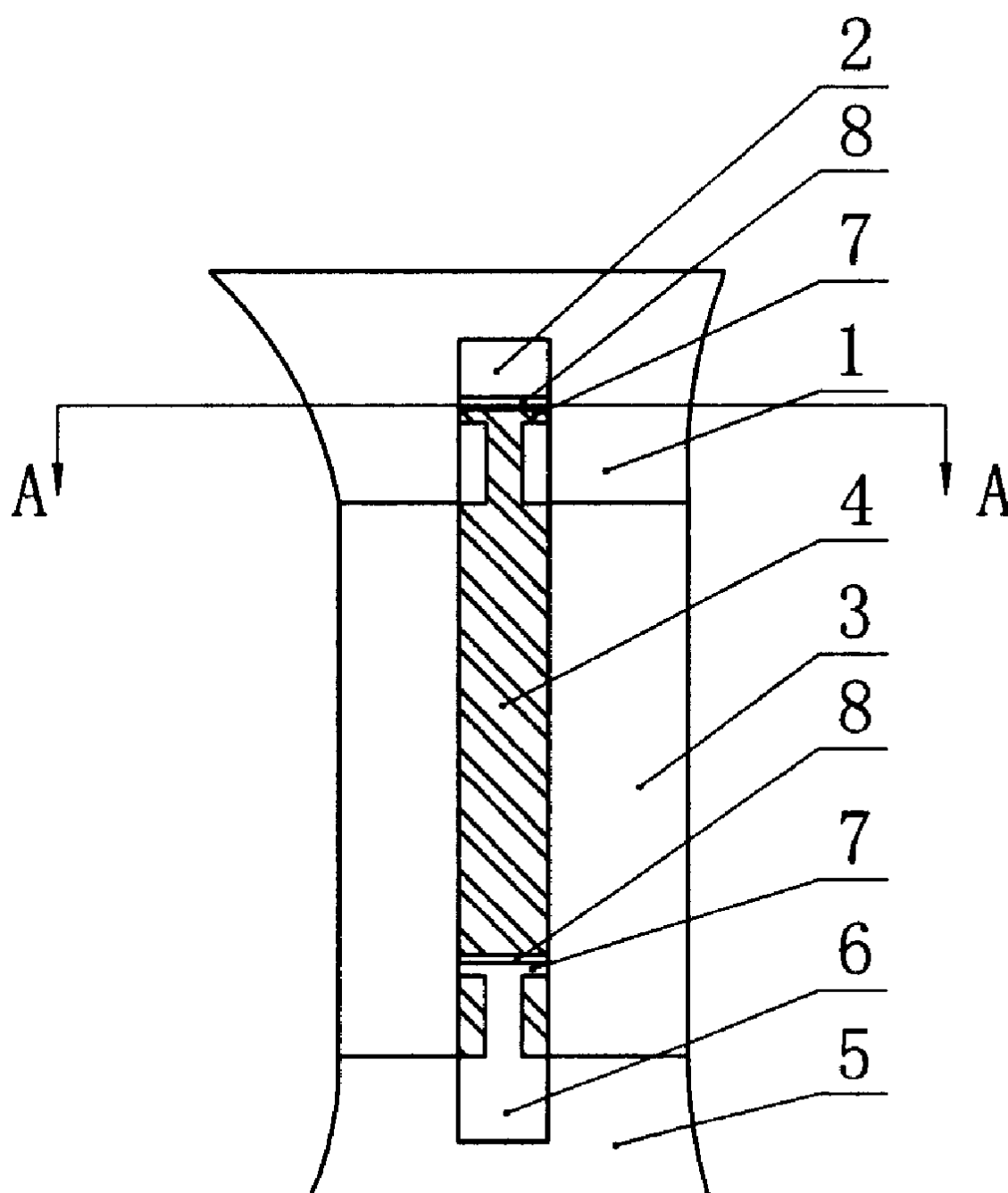
Ki wo ill

Family 378/432 - FAMPAT - ©Questel

Title

(CN2765502U)

Shoe heel

Images

(KR200363975)

Adjusting the height of the existing shoe elbow was not, the person can quickly repair was not provided. The present invention relates to solve the above problems with a shoe (200) having a heel for (100) the heel for (100) the heel is composed of several small and, at the top of the first heel (110) of the shoe (200) to provide a flat floor and floor of the strongly bonded (300) by the adhesive and, on the (111) underside of the heel (110) of the first bend portion and provide, the second heel (120) and the underside of the upper face of the first heel (110) provided corresponding to the bent part (112), the second heeled shoe underside and the underside of the heel (120) first and provide the same on the bend (111), the third and fourth heel for (130) the heel (140) bend in the same manner as the second heel for (120) footwear is provided, the heel (101) of the shoe (110,120,130,140) the smaller horseshoe horny (102) and provided in the form and the same, and the underside of the upper surface of the shoe (110,120,130,140) is smaller than the horseshoe threaded (410) through a small hole (400) therethrough having corresponding threads (500) provided by a linkage for adjusting the height heeled footwear shoe can be provided. As a result of heeled shoes and easy replacement, the old scene is an economical effect appears to provide a shoe.

Inventors

CHA, WHA MOK

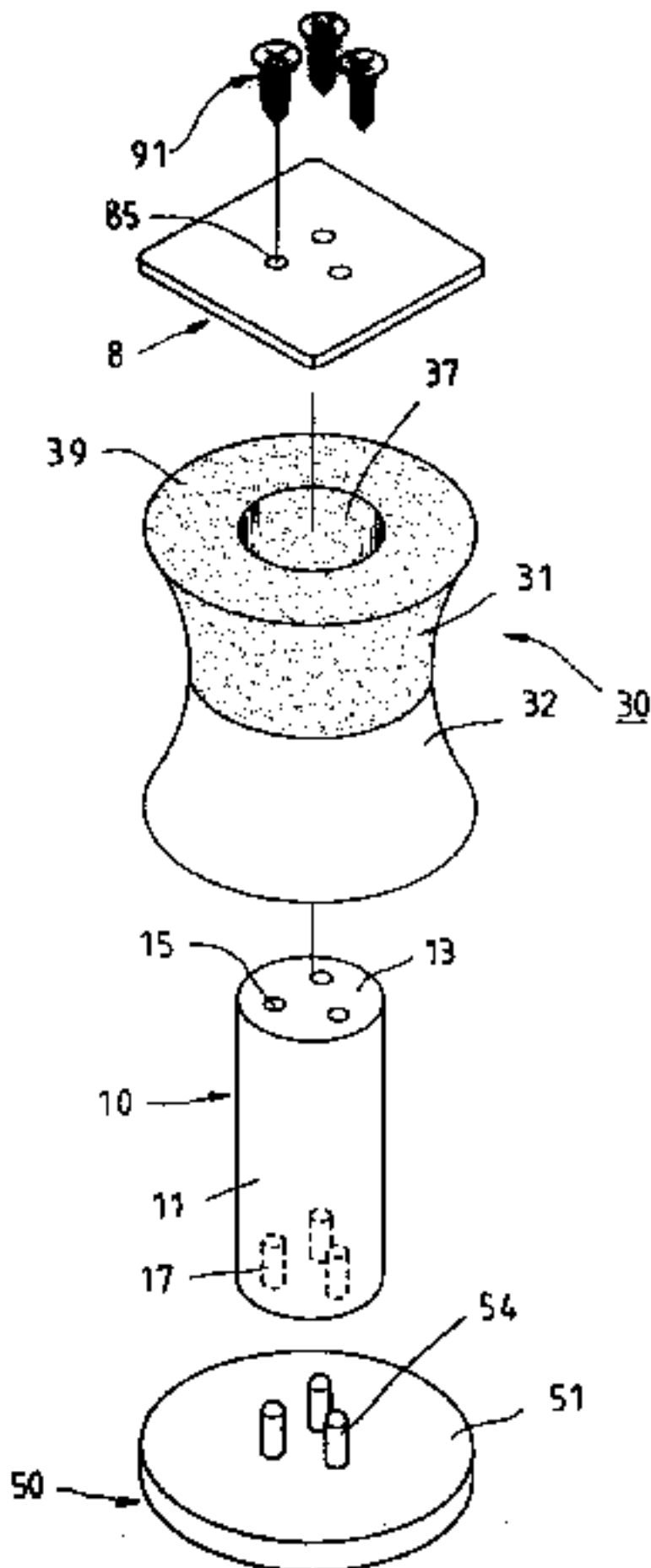
Family 380/432 - FAMPAT - ©Questel

Title

(CN1377616)

Shoe heel

Images



Publication data including kind & date

[CN1377616](#)

A 2002-11-06 CN1377616



Abstract

(CN1377616)

Shoe heel includes consists of a pin fixed below shoe sole and a plastic heel body with ground outer surface and a hole for the pin to insert. The combination structure makes the heel variable in shape and color in relatively lower cost.

Inventors

PAN GUANGSHENG

Latest standardized assignees - inventors removed

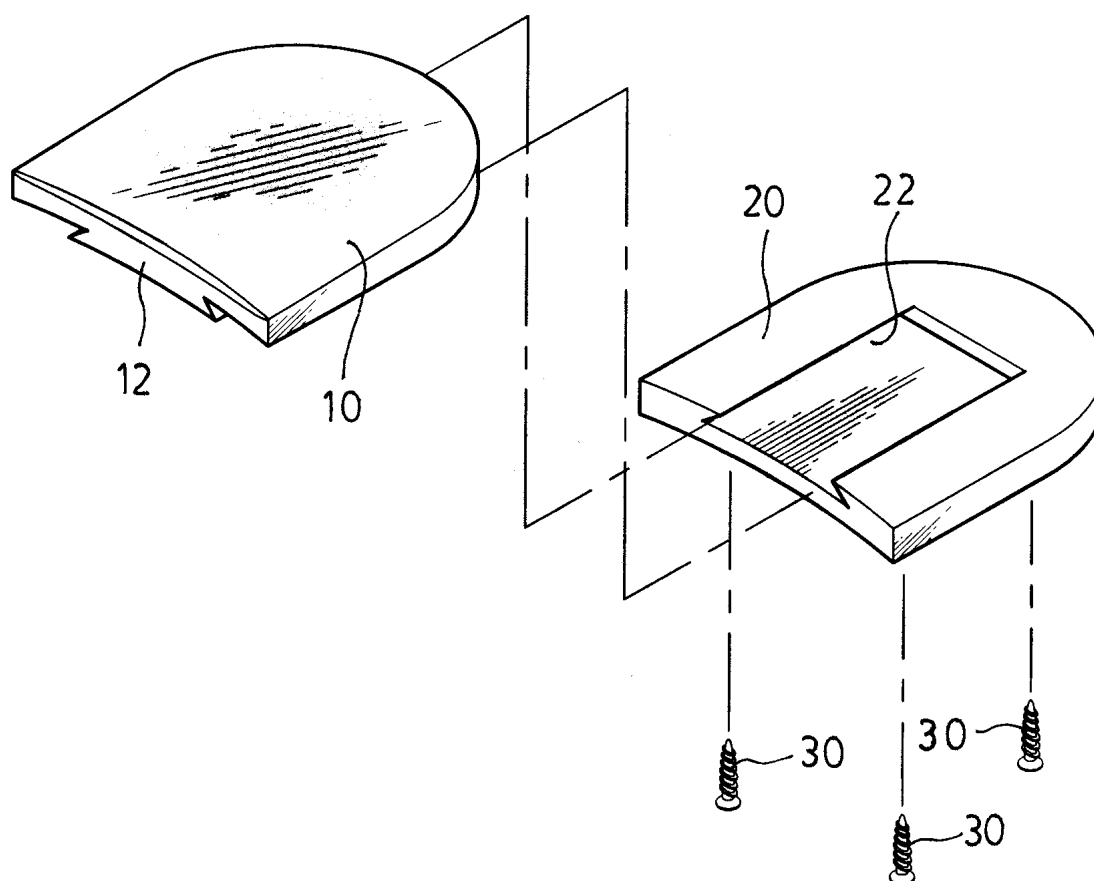
LIANYI ENTERPRISE

Family 381/432 - FAMPAT - ©Questel

Title

(KR200196417U)

Sliding exchange type shoes hoof

Images**Publication data including kind & date**[KR200196417](#)

Y1 2000-09-15

KR200196417U

**Abstract**

(KR200196417)

This invention relates to a slide shoe and replaceable as a curved, bent in the shape of a conventional shoe having an upper body (10) and a slide protrusion (12), the protrusion (12) and the protrusion (12) so as to fit the shape of the concave groove (22) formed corresponding to the locking bolt (30) and a screw hole (24) passing through the lower body (20) having the same, wherein the upper body (10) and lower body (20) after assembly in order to prevent any departure from the lower body (20) constituted by fastening the fastening bolt (30), adapted to exchange the shoe bend features.

Accordingly, this invention relates to a shoe by forming a bend 2 divided in two parts and a lower body in such a manner as to freely slide exchange exchange heeled shoes because of economic exchange, in order to reduce the loss of time by reducing the amount of discarded shoes to protect the natural resource recycling of country dimension which may be useful in terms of the effect.

Inventors

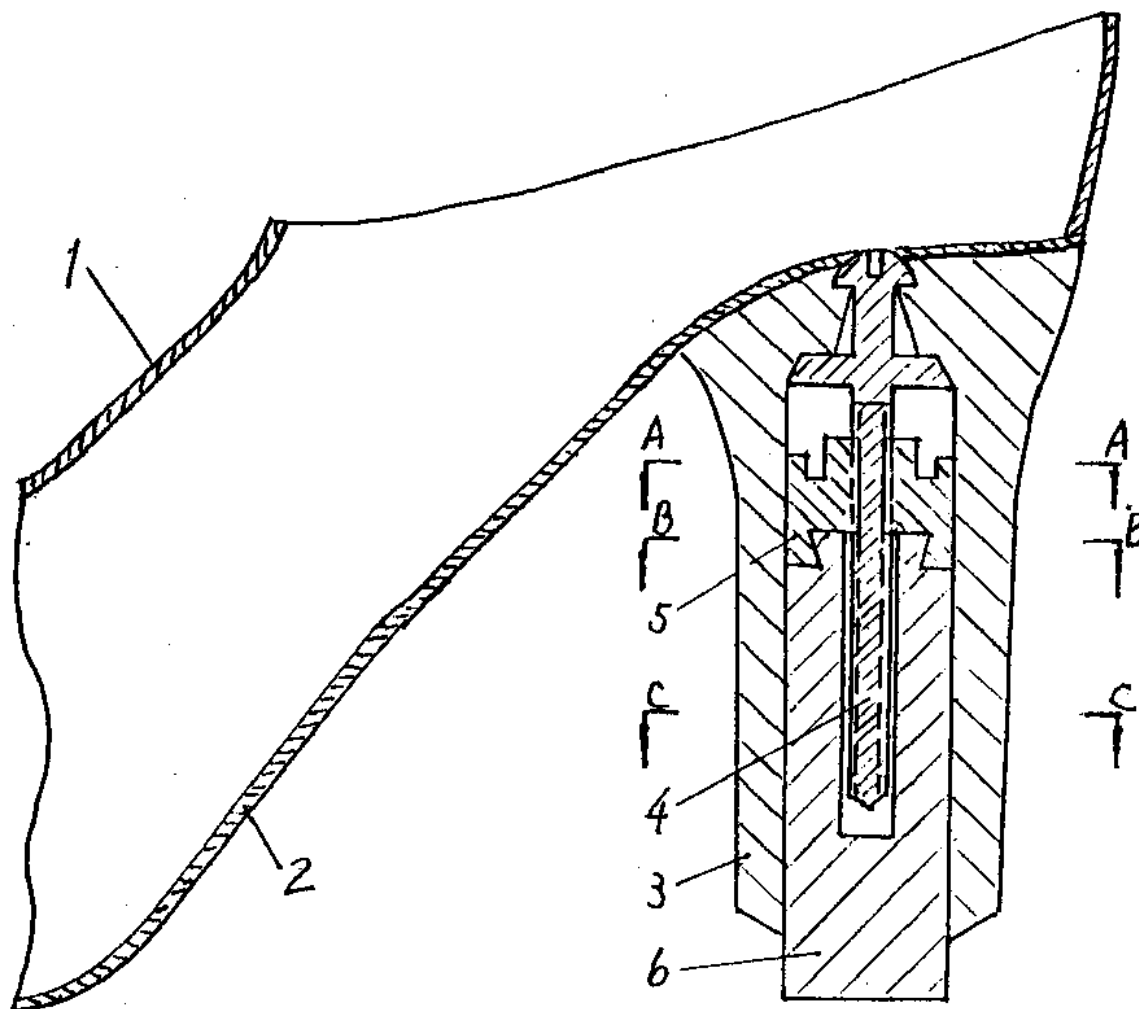
KIM, YEONG SEOK

Family 382/432 - FAMPAT - ©Questel

Title

(CN2347452U)

Shoes with adjustable heels

Images**Publication data including kind & date**[CN2347452](#)

Y

1999-11-10

CN2347452U

**Abstract**

(CN2347452)

The utility model relates to a pair of shoes with adjustable heels, wherein each shoe comprises an upper, a sole and a heel. The utility model is characterized in that each heel is composed of a heel sleeve, a screw rod, a nut and a telescopic heel, and the telescopic heel and the nut are connected into a whole through a clamping table and a clamping groove. The nut is screwed on the screw rod, and is installed in the heel sleeve. A screw cap arranged at the upper end of the screw rod is pressed in a small mushroom-shaped hole at the upper end of the heel sleeve, and the nut and the adjustable sleeve can be moved up and down by rotating the screw rod. The utility model solves the problem that heels of high-heeled shoes are frequently changed.

Inventors

LIU GUANGHUA

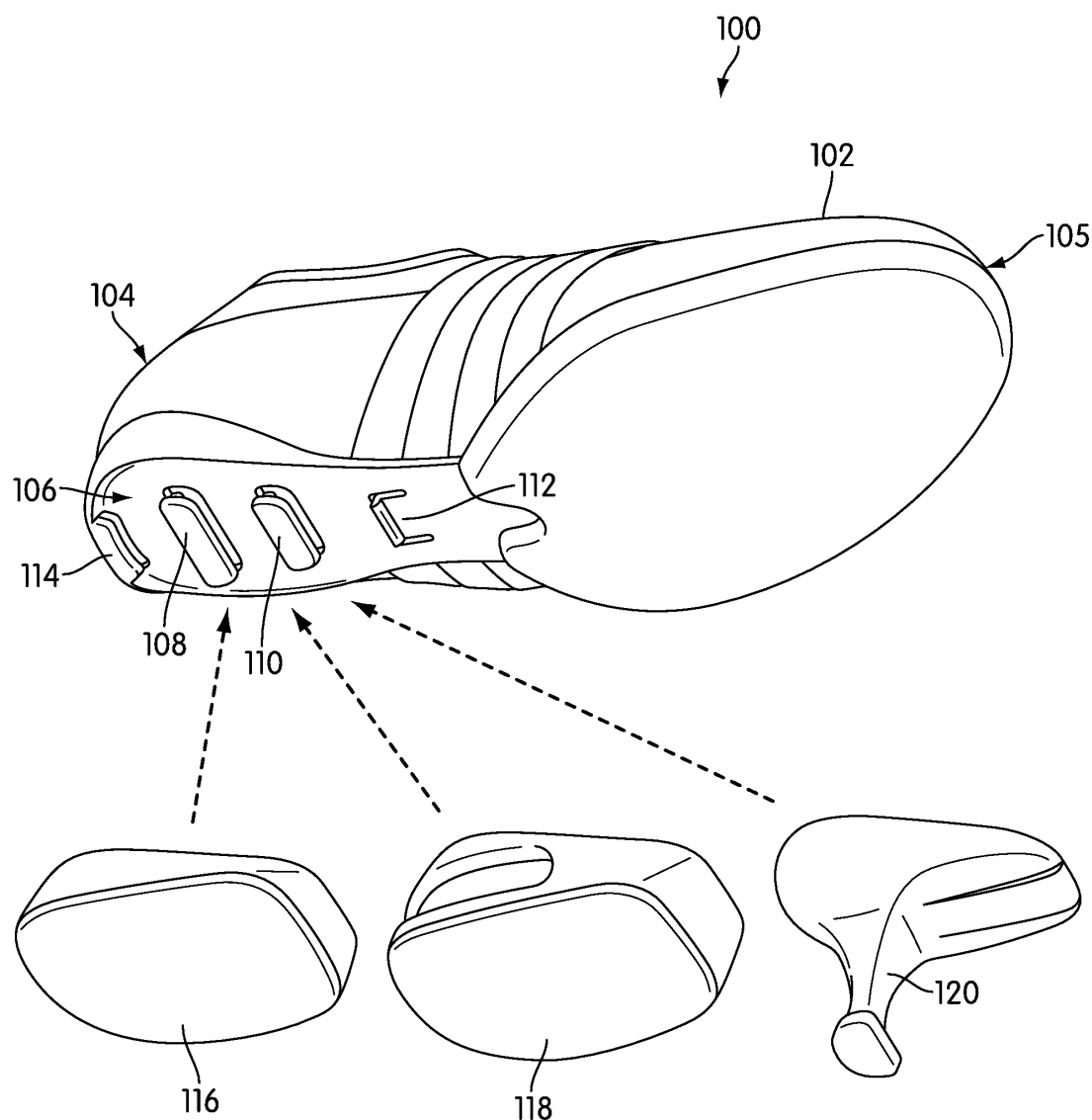
Family 383/432 - FAMPAT - ©Questel

Title

(US8112906)

Article of footwear with interchangeable heels

Images



Publication data including kind & date

[US8112906](#)

B2

2012-02-14

US8112906

[US20100101113](#)

A1

2010-04-29

US20100101113



Abstract

(US20100101113)

An article of footwear includes a group of interchangeable heels. Each heel in the group may be removably associated with the article of footwear. A finger-operable locking mechanism prevents a heel that has been secured to the article of footwear from unintentionally moving toward a toe region. Similarly, a tab positioned at the rear of the article of footwear inhibits a heel that has been secured to the article of footwear from unintentionally moving away from the toe region.

Inventors

PAIK SEUNG MIN

Latest standardized assignees - inventors removed

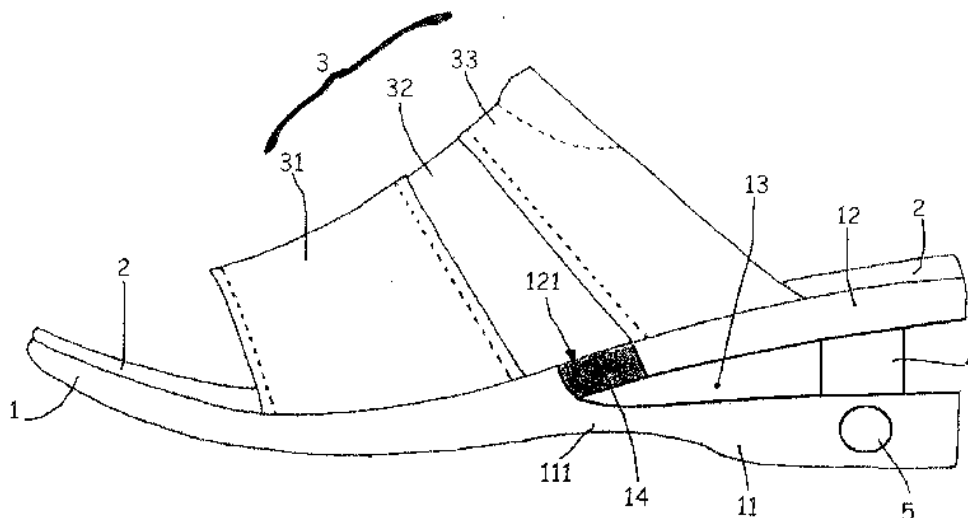
NIKE

Family 384/432 - FAMPAT - ©Questel

Title

(FR2857832)

Foot wear e.g. shoe or slipper, has flexible link connecting lower and upper parts of sole, to open or close gap between parts, and wedge removably fixed between lower and upper parts for adjusting opening of gap

Images**Publication data including kind & date**

FR2857832	B1	2006-02-03	FR2857832
FR2857832	A1	2005-01-28	FR2857832

**Abstract**

(FR2857832)

The foot wear has a sole (1) divided at its back into a lower part (11) supported on the ground and an upper part (12) supporting foot. A flexible link (14) connecting the parts permits to open or close a gap (13) between the parts. A wedge (4) is removably fixed between the two parts by a support and fixation unit and a pin (5) sliding in a blocking orifice of a brooch, for adjusting the opening of the gap.

Inventors

QUILLIOT ROLAND

Latest standardized assignees - inventors removed

OXPAS

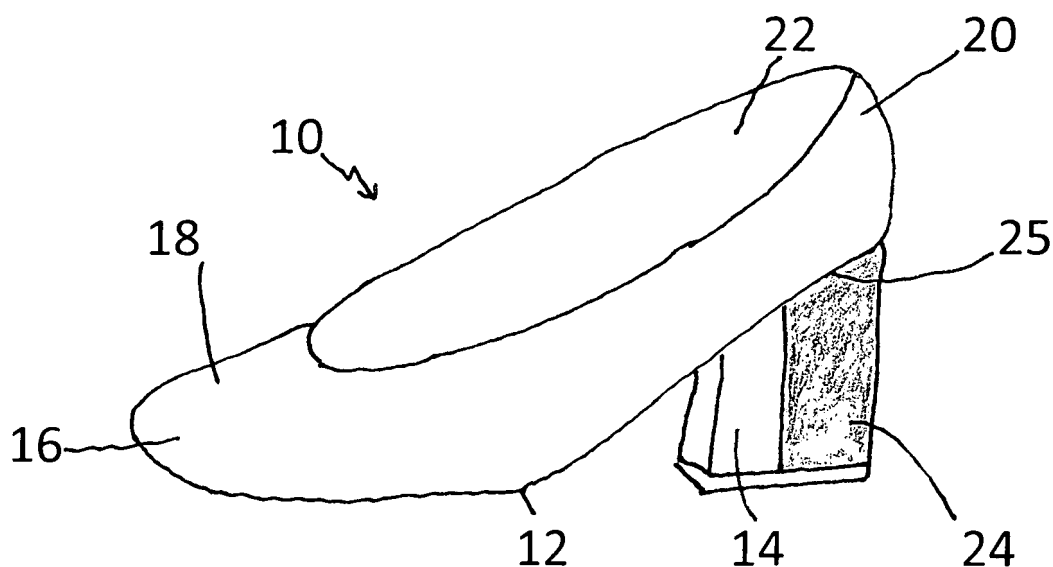
Family 385/432 - FAMPAT - ©Questel

Title

(EP2768334)

Shoe with attachable fashion accessories

Images



Publication data including kind & date

EP2768334	A4	2015-07-22	EP2768334
EP2768334	A1	2014-08-27	EP2768334
WO2013/058805	A1	2013-04-25	WO201358805
US20130091736	A1	2013-04-18	US20130091736



Abstract

(EP2768334)

A shoe assembly and decorative shoe accessories for attachment to various parts of a shoe are disclosed. The decorative shoe accessories comprise a substantially U or C-shaped heel cover, the heel cover having first and second front ends and a back end. The heel cover has an inside surface and an outside surface, wherein when the heel cover is slipped over a heel of the shoe tension created when the first and second front ends are moved away from each other holds the heel cover in place over at least part of the heel. The outer surface of the heel cover has a decorative pattern. The decorative shoe accessories also comprise a toe box cover having a top surface and a bottom surface.

Inventors

WORLEY ANN R

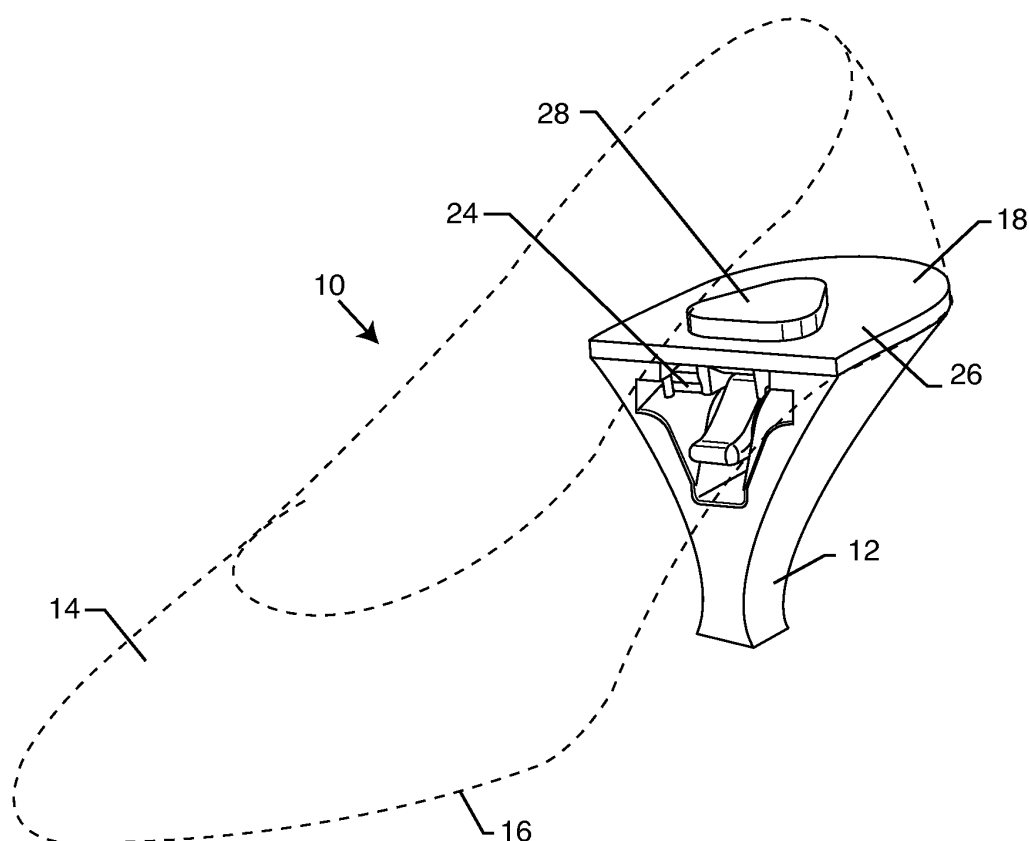
Family 386/432 - FAMPAT - ©Questel

Title

(WO200637143)

Collapsible high-heeled shoe

Images

**Publication data including kind & date**[US20130067770](#)

A1 2013-03-21

US20130067770

**Abstract**

(US20130067770)

A shoe includes an interchangeable heel having a shoe body configured to accept a foot of a person. A protrusion is permanently attached to a bottom heel surface comprising two oppositely disposed straight edges separating and contiguous with two oppositely disposed curved edges. A channel is disposed within the protrusion between the two oppositely disposed curved edges. A removable heel comprises an open-ended slot configured to securely accept the protrusion. The removable heel is rotatably attachable to the protrusion. The at least one stop is attached to the removable heel and configured to prevent translation of the removable heel relative to the protrusion. A flexural lock attached to the removable heel is configured to engage the channel and prevent rotation of the removable heel relative to the protrusion. The flexural lock may be manually disengaged by the person to release the removable heel from the protrusion.

Inventors

SHERWOOD JULIANA LUTZI

SHERWOOD ROBERT LEE

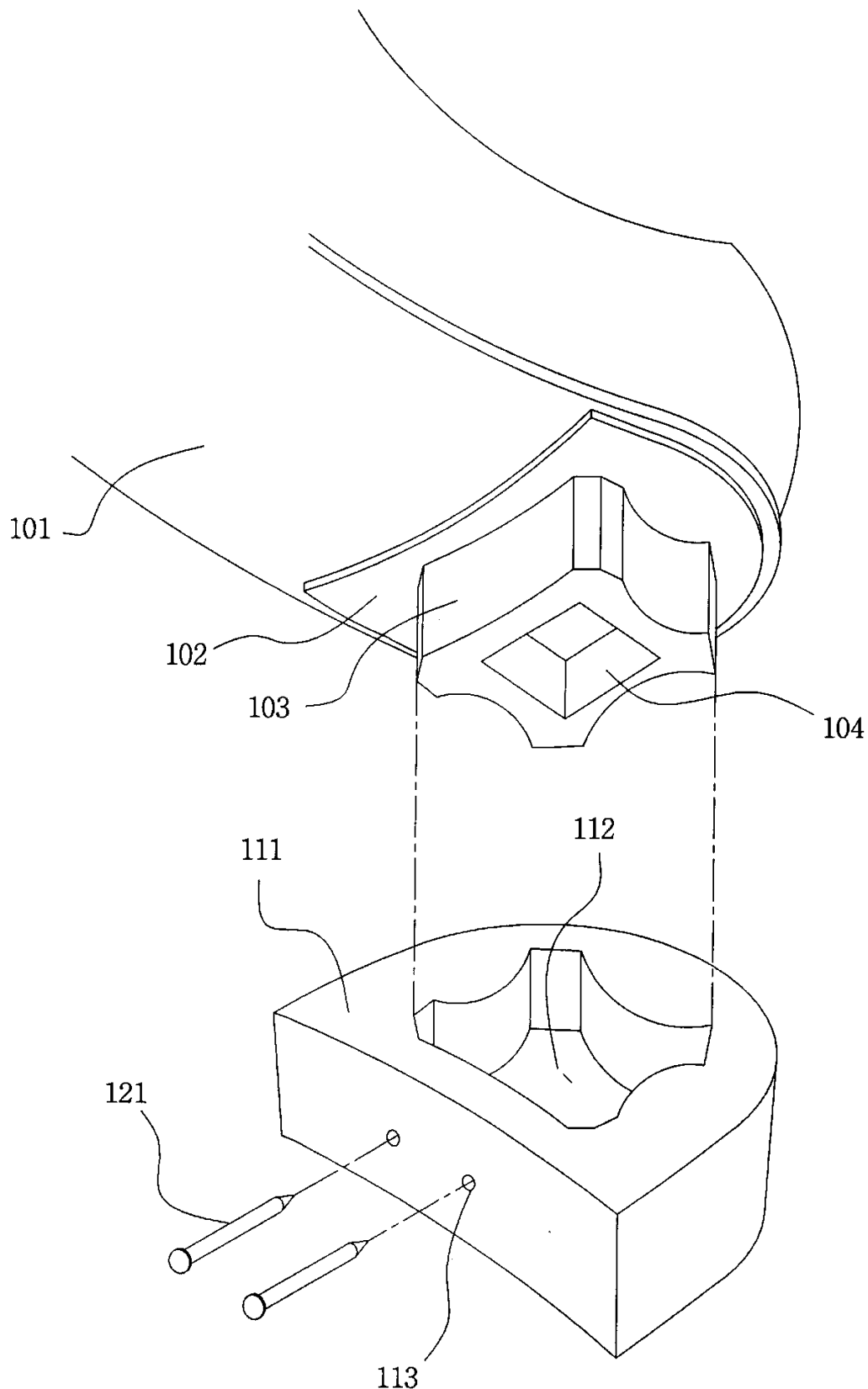
Family 388/432 - FAMPAT - ©Questel

Title

(KR20050081525)

A shose

Images

**Publication data including kind & date**[KR20050081525](#)

A

2005-08-19

KR20050081525

**Abstract**

(KR20050081525)

PURPOSE: A detachable shoe heel is provided to easily change a heel of a shoe and to reduce the time and cost for changing heels.

CONSTITUTION: The detachable shoe heel includes a heel fixing portion(103) and a heel(111) having an insertion portion(112). The heel fixing portion(103) is formed on the supporting member(102) attached to the rear portion of the shoe

sole(101). The insertion portion(112) is inserted into the heel fixing portion(103) and is fixed by many fixing pins(121). To reduce the weight of the heel fixing portion(103), the space portion(104) is formed in the heel fixing portion(103).

© KIPO 2006

Inventors

KIM, KYUNG-SUB

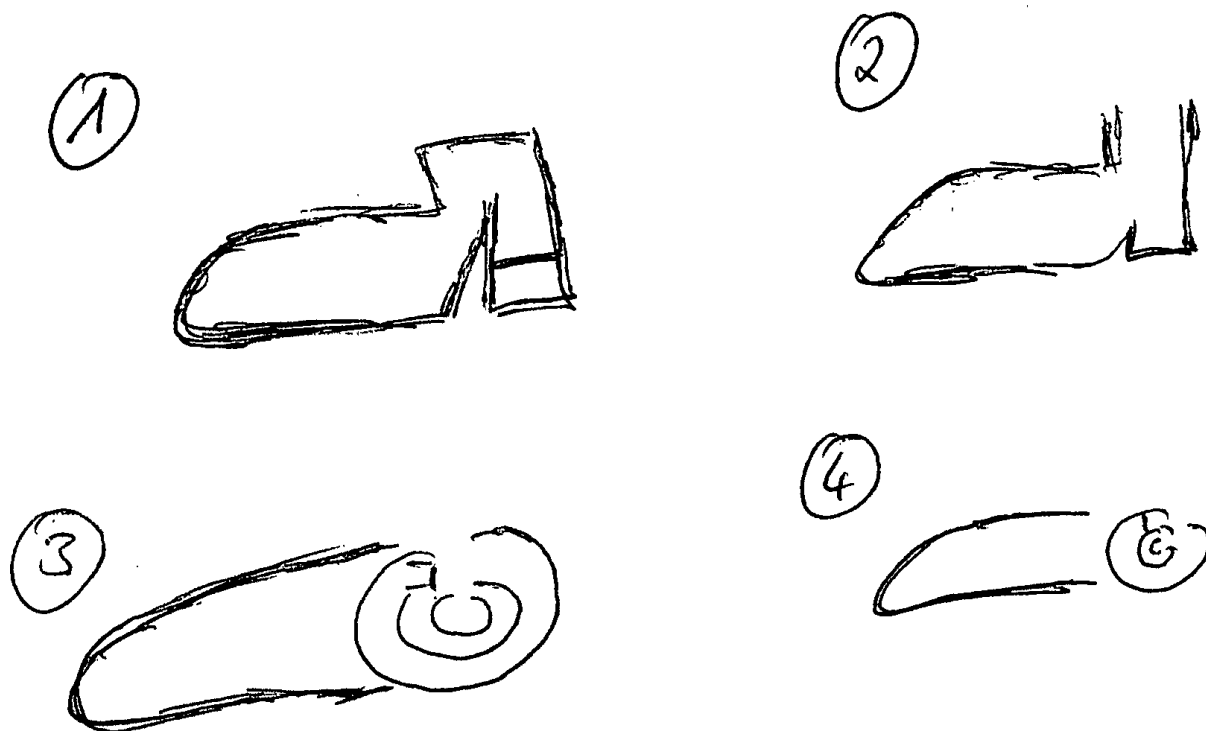
Family 389/432 - FAMPAT - ©Questel

Title

(DE202008004259)

2 shoe heel 1 into

Images



Publication data including kind & date

[DE202008004259](#)

U1 2009-03-19

DE202008004259



Abstract

(DE202008004259)

Clicking on the metric thread surface, which makes it possible to easily visualize the heel is u

Latest standardized assignees - inventors removed

LUDIN SABRINA

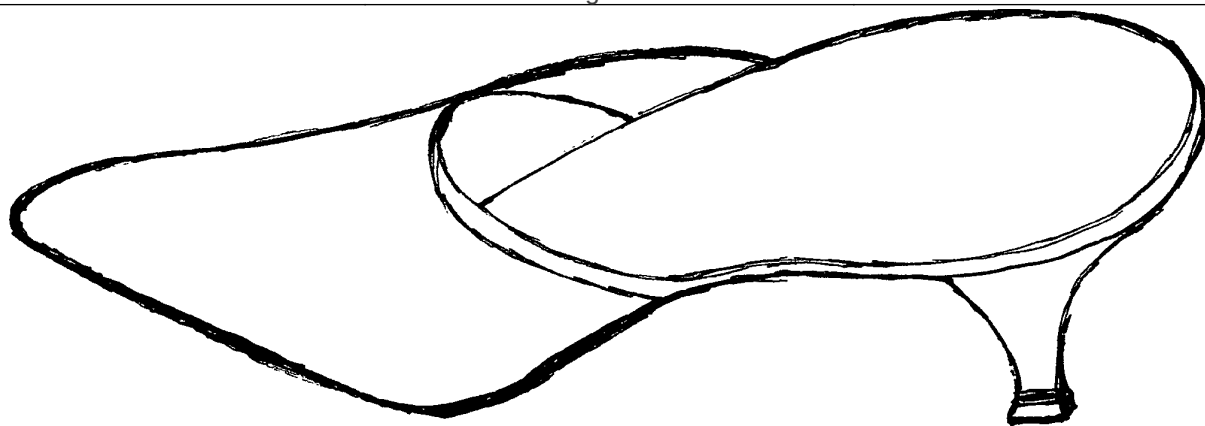
Family 390/432 - FAMPAT - ©Questel

Title

(DE202006017855)

Lady shoe, has heel exhibiting height and thickness of specific centimeters, and detachable protective cap, where heel is fastened at top of screw

Images

**Publication data including kind & date**[DE202006017855](#)

U1 2007-03-01

DE202006017855

**Abstract**

(DE202006017855)

The shoe has a heel that exhibits height of 2-7 centimeters and thickness of 1.5 x 1.5 centimeters. A protective cap is detachable and exhibits height of 0.5 centimeter and thickness of 1.5 x 1.5 centimeters. The heel is fastened at a top of a screw. The heel is screwed with height of 5.5 centimeter.

Latest standardized assignees - inventors removed

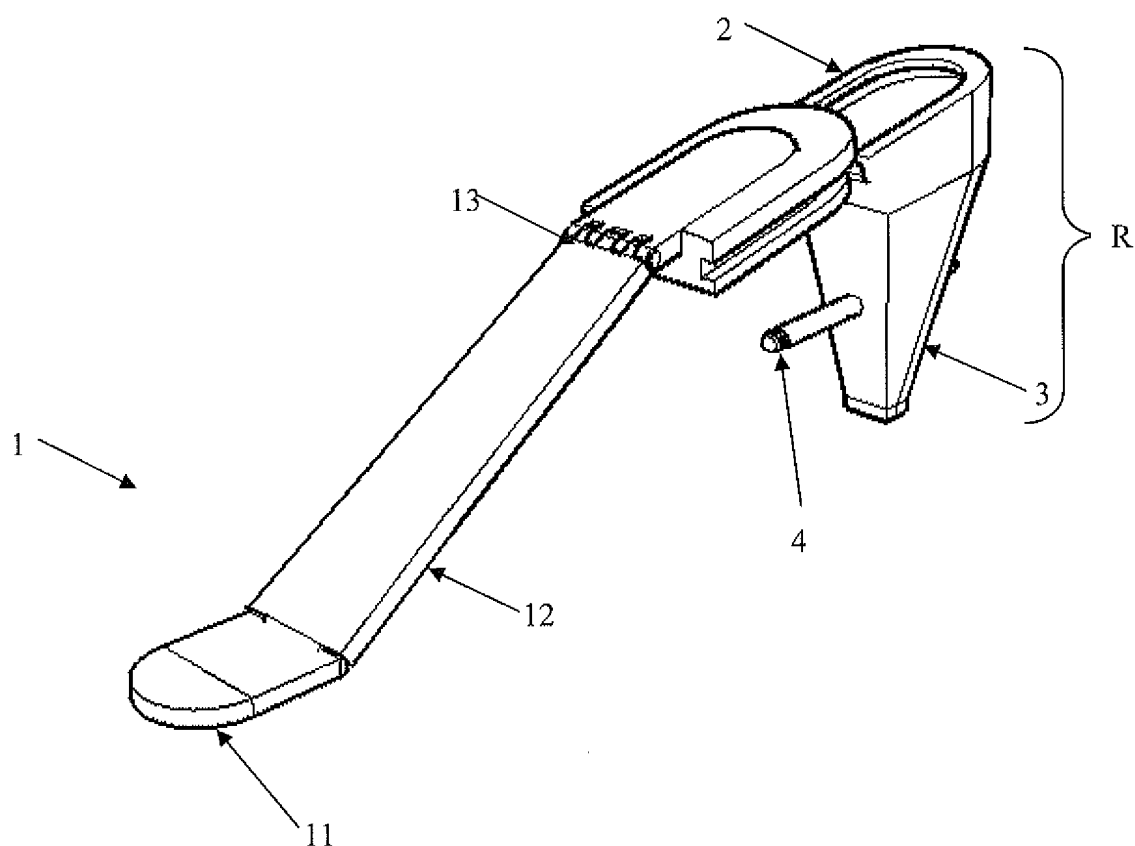
PFLIEGLER RENATE

Family 391/432 - FAMPAT - ©Questel

Title

(US20110119954)

Replaceable Heels

Images**Publication data including kind & date**

[US20110119954](#)

A1 2011-05-26 US20110119954

Abstract

(US20110119954)

The invention describes a safety replaceable heel mechanism that is used to adjust the height of women's shoes. The mechanism comprises a shoe sole, a removable heel comprising a heel connector and a interchangeable heel, and a locking key to securely connect the removable heel to the shoe sole. The heel is detached and the shoe can be worn without the heel, providing a pair of shoes suitable for different occasions. The invention is provides a stable structure avoiding unwanted movement of the removable heel for adjusting the comfort of a particular pair of shoes during the course of a day.

Inventors

ORTIZ SANDRYSABEL

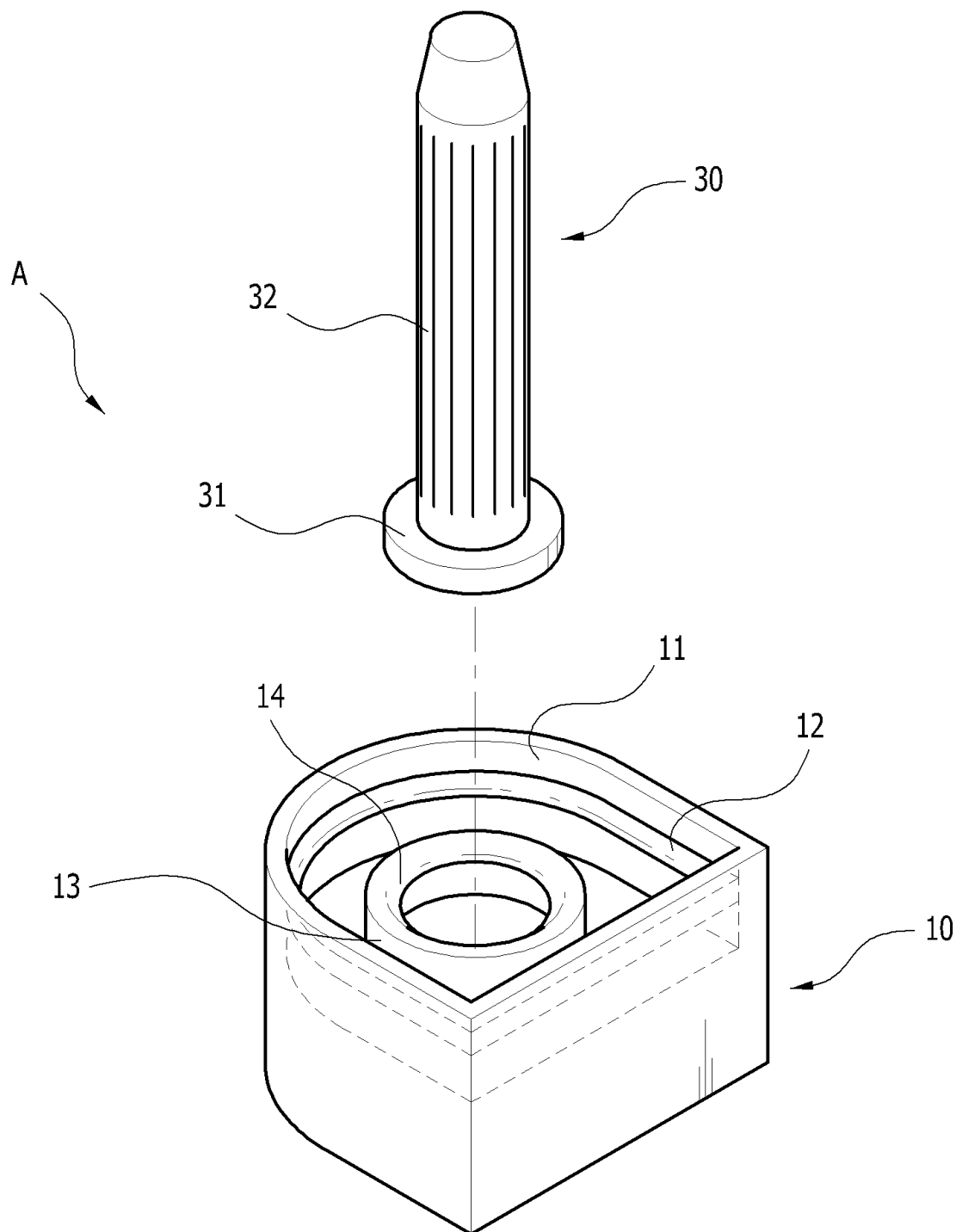
Family 392/432 - FAMPAT - ©Questel

Title

(KR20120000130)

The heels and the manufacturing method for rear hoof of high-heeled shoes

Images

**Publication data including kind & date**

KR20120000130

A

2012-01-02

KR20120000130

**Abstract**

(KR20120000130)

PURPOSE: A heel for high-heeled shoes and a manufacturing method thereof are provided to reduce fatigue caused by walking or running and to reduce load on the joints. **CONSTITUTION:** A heel for high-heeled shoes comprises: a fixing peg(30) which is equipped with a fixing unit which is inserted into a fixed hole equipped at the lower part of a heel and in which a head is equipped in the lower part of the fixing unit; an elastic unit(10) which is made of a rubber material which absorbs impacts and is equipped with a seating guide; and a joint unit which is made of hard synthetic resin.

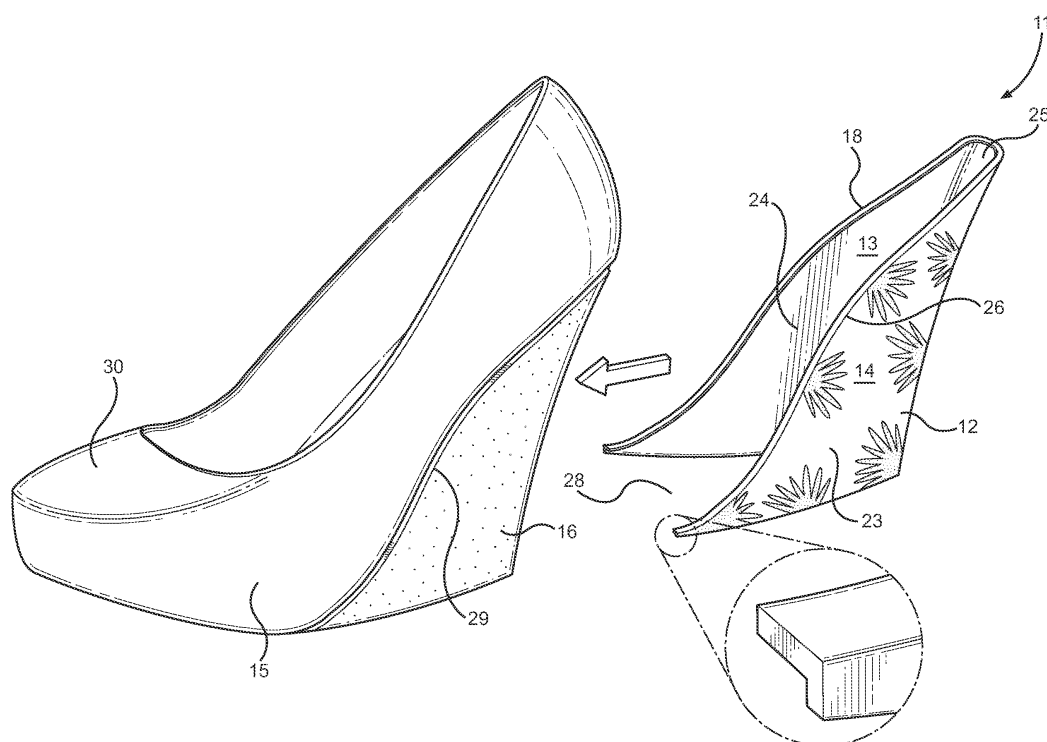
Inventors

LEE, SEUNG-HO

Title

(US20160015130)

Interchangeable Wedged Heel Covering Device

Images**Publication data including kind & date**[US20160015130](#)

A1 2016-01-21

US20160015130

**Abstract**

(US20160015130)

The interchangeable wedged heel covering device for modifying the appearance of footwear, thereby enabling a user to wear a single pair of shoes in a variety of styles. The interchangeable wedged heel covering device includes a heel cover that removably secures to the surface of a wedged heel. The heel cover is composed of a rigid material so as to form to the corresponding shape of the heel. The heel cover includes a lip disposed along the upper edge in order to stabilize and prevent movement of the device while in use. In an alternative embodiment, the device is composed of flexible material having an adhesive disposed on the interior thereof so as to removably secure the heel cover to the heel. The lower end of the device further includes one or more removable sections so as to adjust the length of the heel cover to fit various sized heels.

Inventors

KNOX JANNA

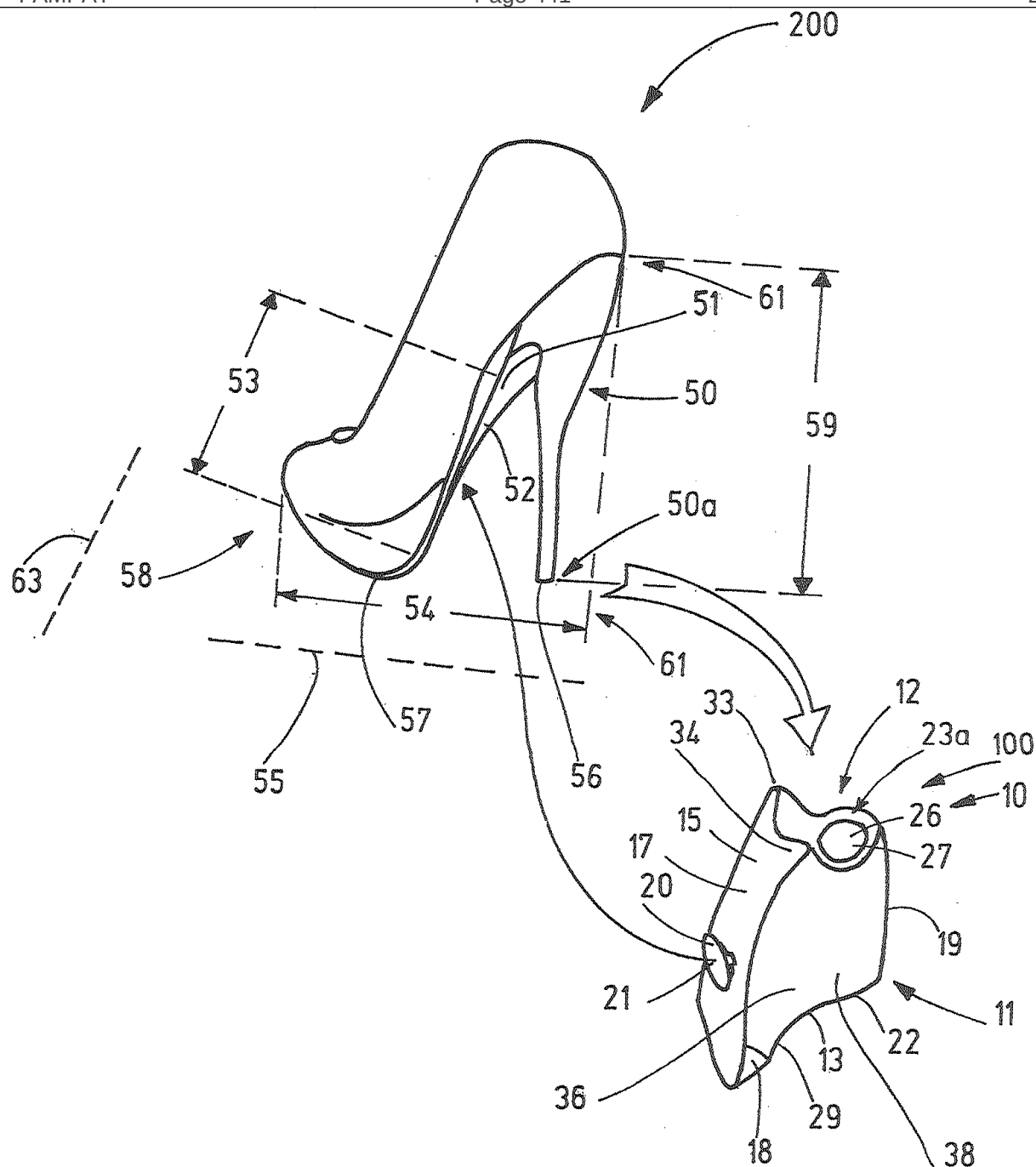
Family 394/432 - FAMPAT - ©Questel

Title

(DE102013110663)

Device for placement on a shoe

Images

**Publication data including kind & date**

DE102013110663

A1 2014-09-18

DE102013110663

**Abstract**

(DE102013110663)

The interactions between a device and a shoe is a device for placement (100) to improve on a shoe (200) body (10) according to the invention is formed, and an opposite second end portion (11) and the molding (10) a first end region (12), the appearance of the molded article (10) surface (13) to the first end region (11), wherein the mold between the (10) first end and (11) second end portion (12) has a distance (14), wherein the molded article (10) is suitable for mounting to a shoe (200) comprising a step (50), wherein a first side surface (15) of the molded body (10) along a portion of the distance (14) along the entire pitch of the mold (14) (10) or a sole (51) of the shoe or (200) in close proximity to the shoe bottom (51) of the shoe (200) can be arranged to be applied.

Inventors

KÄMMER KAMIL

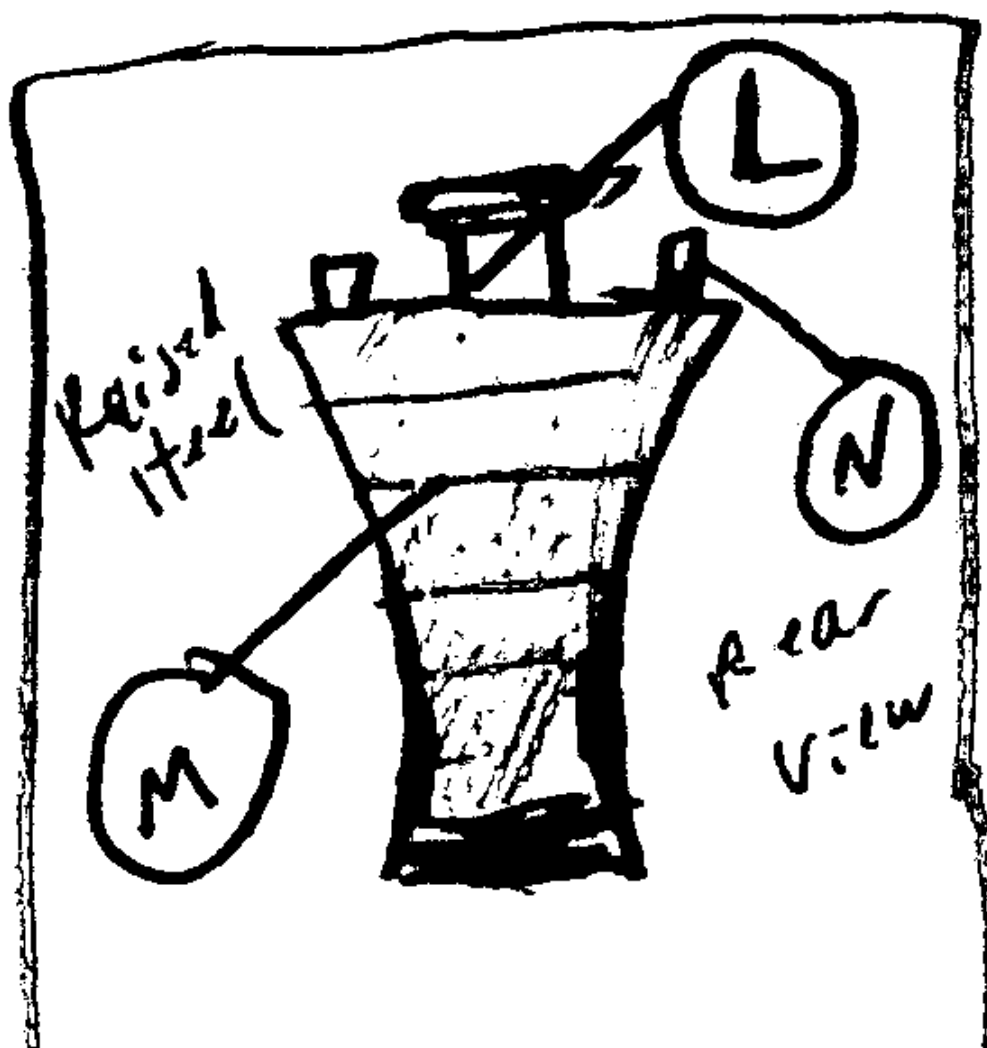
Family 395/432 - FAMPAT - ©Questel

Title

(US20070011909)

Womens shoe that transforms from a high heel shoe to a flat type shoe

Images



Publication data including kind & date

[US20070011909](#)

A1 2007-01-18

US20070011909



Abstract

(US20070011909)

Women's footwear (shoes) that can be worn/used as both a high heel (pump) type shoes as well a flat heel type shoe. Model number one of the transformable shoe feature a raised heel that the raised heel part of the shoe clips on and off the back (heel) part of the shoe by way of a slot clip. When the raised heel is clipped into the heel part of the shoe body they product can be worn/used as a high heel type shoe. When the raised heel is unclipped from the heel part of the shoe body the product could then be worn as a flat heel type shoe. When the raised heel is unclipped from the shoe body the shoe then collapses to a flat type shoe but still keeping the size of the shoe wearer constant and still looking attractive. The shoe conforms from a fitting pump type shoe to a fitting type flat heel type shoe by way of the plastic/rubber/nylon type material that makes up the exterior and interior body of the shoe(s). The outer body of the shoe is made up of an expandable, retractable, plastic, rubber material that is covered by an expandable, retractable, fabric material. The inner sole of the shoe is composed of a harder, bendable, expandable, retractable, rubber, plastic, material that conforms its size and shape when switched from a high heel type shoe to a flat heel type shoe. The clip for the raised heel is similar to the type of belt clips used for several devices but it dose not swivel. The raised heel is clipped onto the heel part of the bottom of the shoe and held into place by way of slots and tong grooves. The top of the raised heel has raised tongs that slide into indented

slots in the left and right sides of the heel part of the shoe body. This feature is how the heel clips into the bottom of the shoe and is held into place. Because of this design technique the raised heel locks into the heel part of the shoe and remains steady. The inner sole part of the shoe(s) that is made up of the harder, more supportive, bendable, retractable, and expandable material is cushioned by way of foam, cushioning, and/or cotton material that is wrapped/covered with an expandable, retractable, fabric material. The bottom part of the shoe is comprised of strategically placed patches of durable, harder, gripped surface, rubber. The gripped texture is rough and ridged in order to provide grip and control when wearing, walking, running; skipping, etc . . . The patches are strategically placed on the bottom of the shoe in order to not interfere with the transformation process from pump to flat type shoe. These portions of the bottom rubber material are adequate for support and function of the shoe(s). The patches of the durable rubber are raised off the bottom of the shoe with a depth of a quarter inch to two inches in depth. The fabric material that covers the body of the shoe is held on by a rubber, expandable, retractable type adhesives.

Inventors

PALMERI JOHN G III

Family 396/432 - FAMPAT - ©Questel

Title

(DE202010013948)

Protective cover for steps of shoes

Images**Publication data including kind & date**[DE202010013948](#)

U1 2011-02-24

DE202010013948

**Abstract**

(DE202010013948)

The protective cover for shoes with steps are to be protected from damage, characterized in, that the shape of the heel is placed over the shoulder (1) shield (2) adapted and there is easily attached to the shoes can be passed.

Latest standardized assignees - inventors removed

JOHNSON ANGELIKA

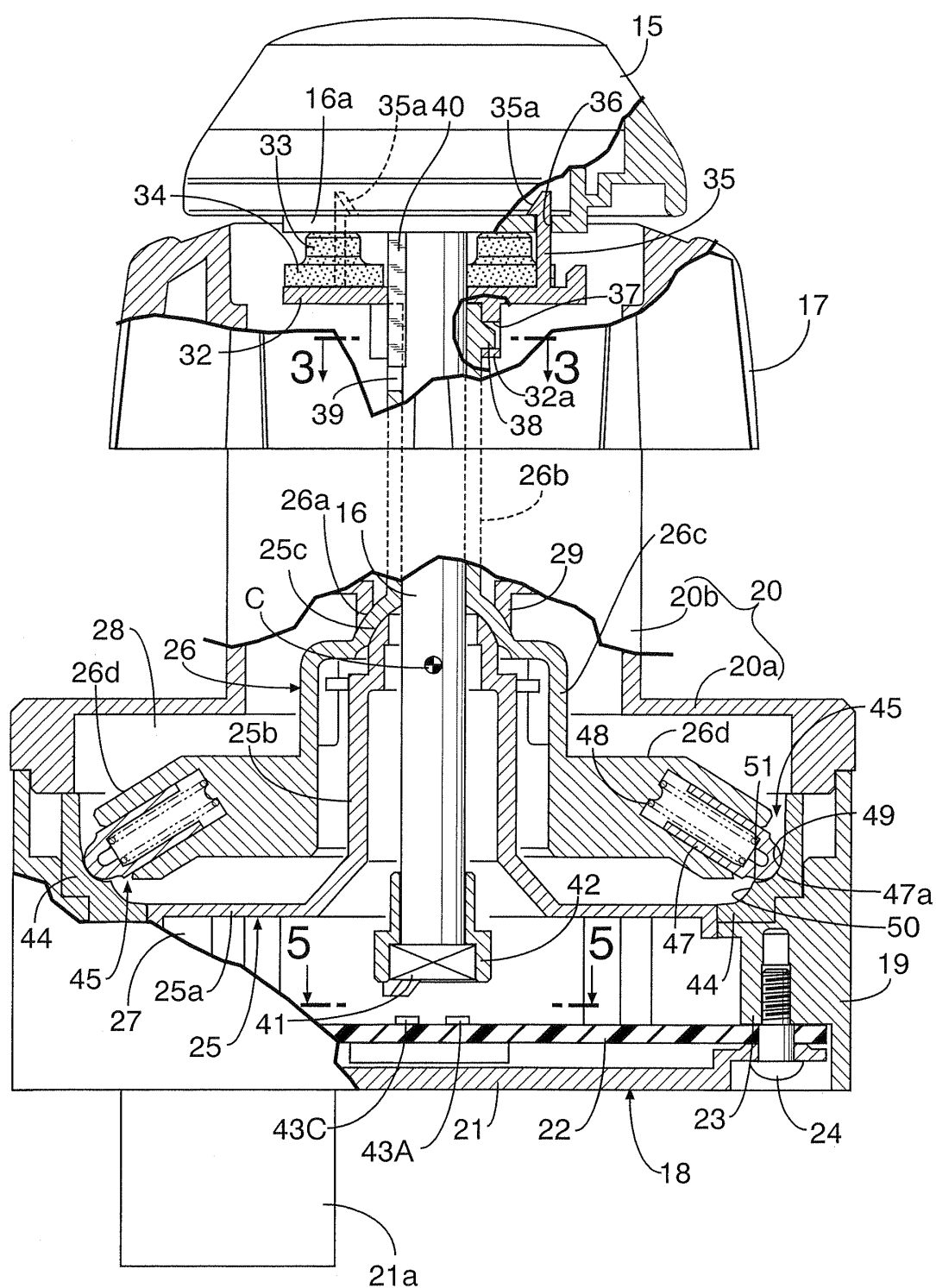
Family 397/432 - FAMPAT - ©Questel

Title

(EP2023359)

Joystick-type switch device

Images



Publication data including kind & date

TH66491	B	2018-11-21	TH-66491B
EP2023359	B1	2016-02-17	EP2023359
CN101443870	B	2012-08-08	CN101443870B
EP2023359	A4	2012-05-30	EP2023359
US8186240	B2	2012-05-29	US8186240
JP4921854	B2	2012-02-10	JP4921854
CN101443870	A	2009-05-27	CN101443870



US20090084214	A1	2009-04-02	US20090084214				
EP2023359	A1	2009-02-11	EP2023359				
WO2007/141894	A1	2007-12-13	WO2007141894				
JP2007323859	A	2007-12-13	JP2007323859				
TH85893	A	2007-08-10	TH-85893				

Abstract

(EP2023359)

A joystick type switch device is provided that includes an operating shaft having an operating knob provided at one end, and a case supporting the operating shaft so that the operating shaft can move between a return position and a pushed-in position and tilt from a neutral position around a tilt center, it being possible to detect pushing of the operating shaft into the pushed-in position and tilting of the operating shaft from the neutral position into eight directions, wherein the operating shaft (16) has a magnet mounted at the other end, and a portion, facing the magnet, of a base plate (22) mounted on the case has at least three Hall elements (43A to 43D) fixed thereto at equal intervals around the axis of the operating shaft (16) in the neutral position. This enables excellent durability to be obtained and the number of components to be reduced.

Inventors

SAKAI NAOHIRO

NOGUCHI YOSHITAKA

TSUZUKI TAKASHI

Latest standardized assignees - inventors removed

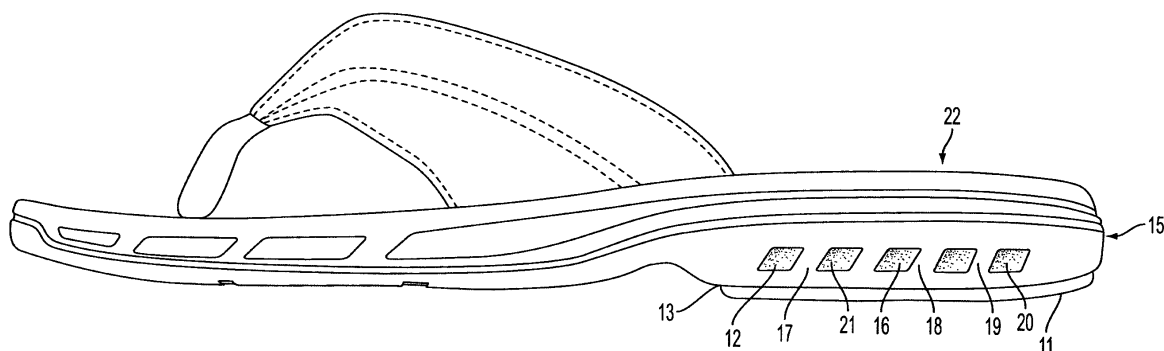
TOYO DENSO

Family 398/432 - FAMPAT - ©Questel

Title

(US8127469)

Footwear sole with a removable heel insert

Images**Publication data including kind & date**

US8127469	B2	2012-03-06	US8127469				
US20100031533	A1	2010-02-11	US20100031533				

Abstract

(US20100031533)

The invention relates to an article of footwear having a hollow heel cavity that is adapted to receive a heel insert. A user can interchange heel inserts of varying thicknesses based on their activity, and is not required to change their footwear when undertaking a new activity. For example, hiking on a dirt trail may require a heel insert with less cushioning and more support, while running on pavement may require a heel insert with more cushioning and less support. The user can simply carry with him multiple heel inserts and replace the heel insert as needed to achieve a desired level of support, cushioning and comfort.

Inventors

KEENAN RYAN W

LEBRASSEUR STEVEN M

GOLOVEYKO WILLIAM D

Latest standardized assignees - inventors removed

QUIKSILVER AMERICAS

QS RETAIL

DC SHOES

MERVIN MANUFACTURING

HAWK DESIGNS

QS WHOLESALE

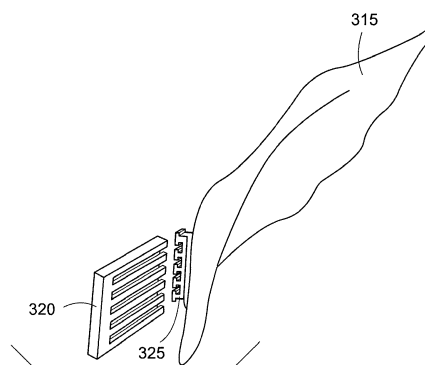
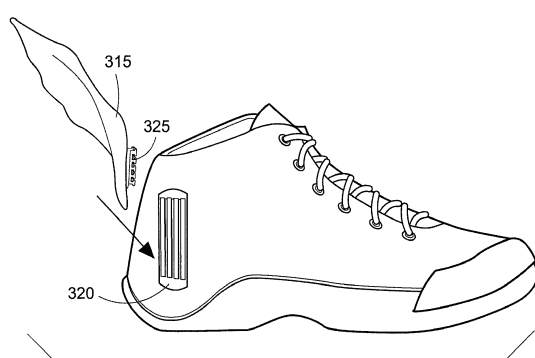
BOARDRIDERS

Family 399/432 - FAMPAT - ©Questel

Title

(EP2309887)

Footwear, clothing and other apparel with interchangeable toe and heel members or other ornaments and related methods and systems

Images**Publication data including kind & date**

CA2767200	C	2017-03-07	CA2767200
TWI489953	B	2015-07-01	TWI489953
US20140298686	A1	2014-10-09	US20140298686
CN102123624	B	2014-04-02	CN102123624B
US8667712	B2	2014-03-11	US8667712
WO2011/126936	A8	2014-01-09	WO2011126936
EP2309887	A4	2013-10-16	EP2309887
US20130174327	A1	2013-07-11	US20130174327
US8387284	B2	2013-03-05	US8387284
WO2011/126936	A1	2011-10-13	WO2011126936
CN102123624	A	2011-07-13	CN102123624
EP2309887	A1	2011-04-20	EP2309887
US20110083341	A1	2011-04-14	US20110083341
TW201026246	A	2010-07-16	TW201026246
WO2010/005871	A1	2010-01-14	WO2010005871
US20100005686	A1	2010-01-14	US20100005686
CA2767200	A1	2010-01-14	CA2767200

**Abstract**

Publication data including kind & date

FR3002417

B1 2015-08-21 FR3002417

FR3002417

A1 2014-08-29 FR3002417

**Abstract**

(FR3002417)

The shoe has a sole (1) under which a heel is housed at a rear part. The heel is divided into three removable upper parts (9-11). First and second removable upper parts are assembled on the sole, and the third removable upper part is used to maintain ankle at a rear part (5). The second removable upper part is fixed at a front part of foot (6). A base part (2) is placed in the sole to allow flexibility of the sole so as to be accommodated at different heights of the heel. The third upper part has a male end piece (4) at an end for being assembled on a female end piece (3).

Inventors

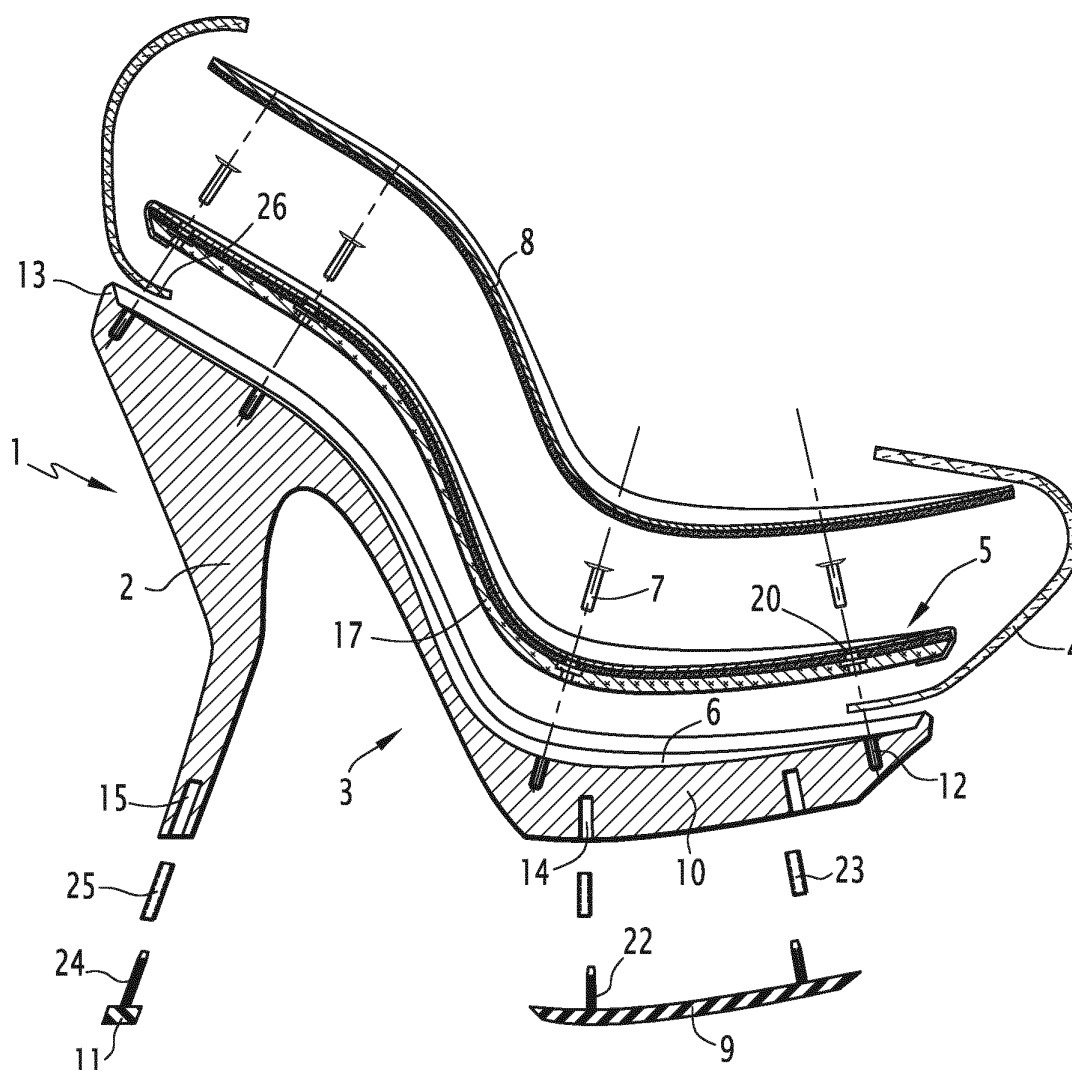
GUIDE MARIE ADRIENNE

Family 401/432 - FAMPAT - ©Questel

Title

(FR2996425)

Shoe, has sole fixed to upper surface of base, and rod including lower edge portion sandwiched between marginal portion of sole and upper surface of base, where sole is attached to base by screwing

Images

[FR2996425](#)

B1 2015-05-15 FR2996425

[FR2996425](#)

A1 2014-04-11 FR2996425

**Abstract**

(FR2996425)

The shoe (1) has a base (3) partially made out of rigid material, a rod (4), and a sole (5) fixed to an upper surface (6) of the base. A lower edge portion (26) of the rod is sandwiched between a marginal portion of the sole and the upper surface of the base. The sole is attached to the base by screwing. The base includes a metal upper part provided with tapped holes (12) for engaging screws for fixing the sole. The sole includes a metal plate made of aluminum or alloy of aluminum. The base is a single-piece made aluminum or alloy of aluminum.

(From FR2996425 A1)

Inventors

ROUSSELET SYLVAIN

BORDAGE MATHIEU

Latest standardized assignees - inventors removed

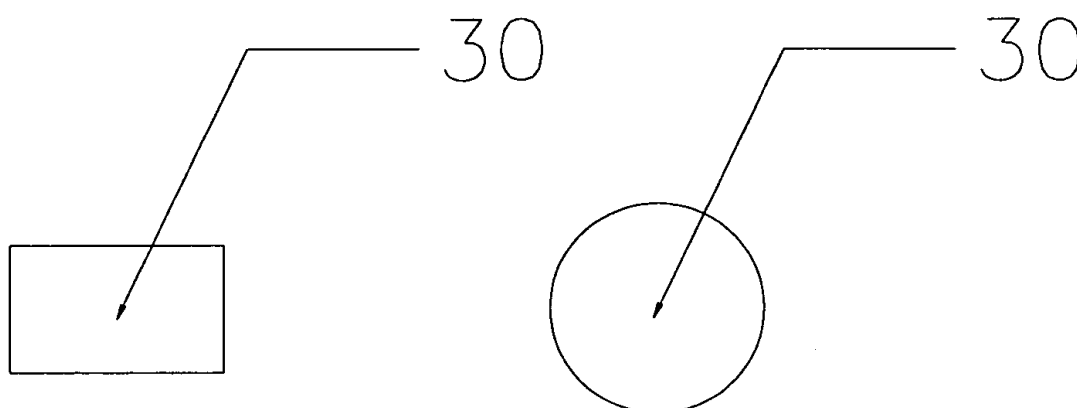
ELEMENT DESIGN PARIS

Family 402/432 - FAMPAT - ©Questel

Title

(WO200631444)

Footwear with removable insert

Images**Publication data including kind & date**[WO2006/031444](#)

A3 2006-12-07 WO200631444

[WO2006/031444](#)

A2 2006-03-23 WO200631444

[US20060053656](#)

A1 2006-03-16 US20060053656

**Abstract**

(WO2006/031444)

A removable, disposable shoe insert that can increase the cushion and shock absorbing properties of a shoe without sacrificing durability or comfort is provided. By using different materials for the insert, the user has the option of when to replace the insert. The insert can be of varying sizes, shapes, hardness, and materials. The insert allows manufactures to make the outsole of more durable materials extending the life of the footwear.

Inventors

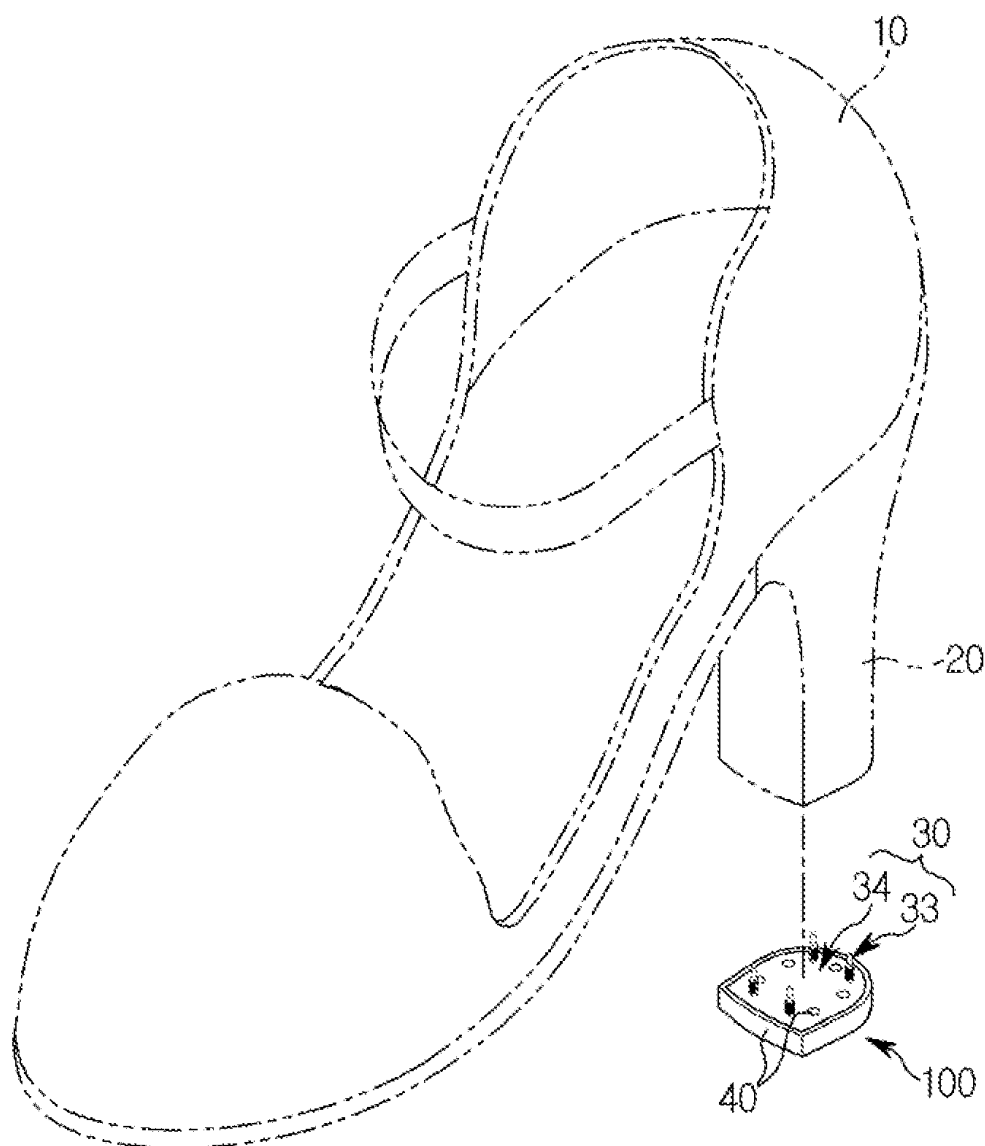
KUMLE DAVID

Family 403/432 - FAMPAT - ©Questel

Title

(EP2653049)

Auxiliary shoe heel and method of fabricating same

Images**Publication data including kind & date**

CN103237471	B	2015-07-29	CN103237471B
EP2653049	A2	2013-10-23	EP2653049
US20130255110	A1	2013-10-03	US20130255110
CN103237471	A	2013-08-07	CN103237471
WO2012/081912	A3	2012-08-09	WO201281912
WO2012/081912	A2	2012-06-21	WO201281912
KR101086636	B1	2011-11-24	KR101086636

**Abstract**

(EP2653049)

Disclosed is an auxiliary shoe heel and a method of fabricating the same. The auxiliary shoe heel includes a hard heel part and a soft heel. The hard heel part includes a coupling member that includes a coupling end integrally formed with an end of a coupling rod. The hard heel part further includes a hard heel which surrounds the coupling end of the coupling member, and is formed of hard rubber in a semicircular plate shape through an insert injection molding process. The hard heel has a plurality of soft heel holes vertically passing therethrough. The soft heel is integrally formed with the hard heel through an insert injection molding process so as to fill the soft heel holes and surround side and bottom surfaces of the

hard heel. The soft heel is not easily separated from the hard heel, and provides cushioning and anti-slip functions.

Inventors

JANG KUN CHAI

Latest standardized assignees - inventors removed

KIM KYUNG JONG

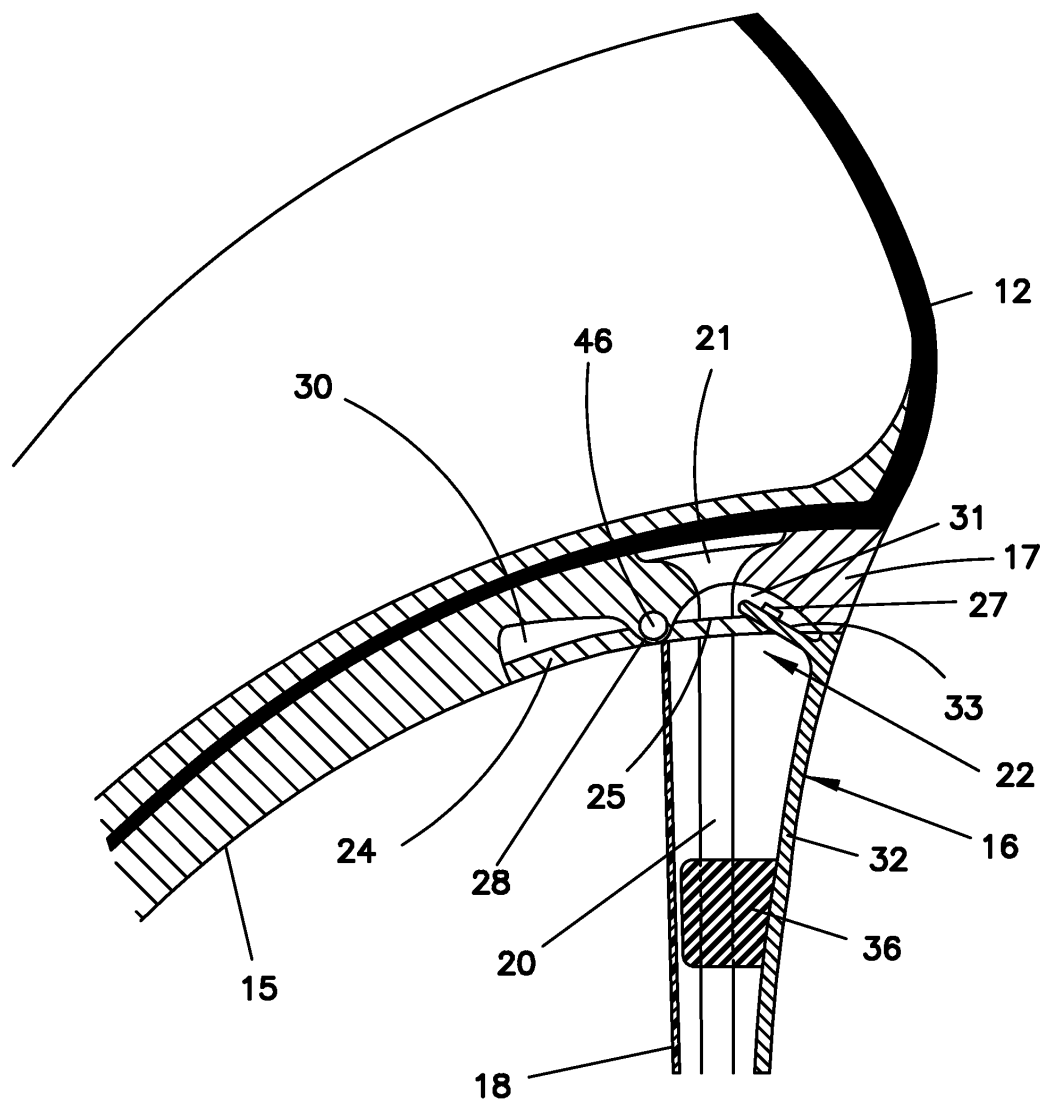
Family 404/432 - FAMPAT - ©Questel

Title

(US8925218)

High-heeled shoe with exchangeable high-heels

Images



Publication data including kind & date

[US8925218](#)

B2 2015-01-06

US8925218

[US20140096413](#)

A1 2014-04-10

US20140096413



Abstract

(US20140096413)

A high-heeled shoe is configured to utilize exchangeable high-heels. A biased, pivoting latch is formed into the sole of the shoe at the heel portion of the sole. A heel stem or support is fixedly attached to the shoe and extends from the sole and about the pivoting latch, terminating in a tip. The stem has a length at least approximately equal to a desired length of the

high-heel. An exchangeable high-heel is characterized by a generally hollow body having a resilient stem holder therein configured to releasably receive and hold the heel stem. A reinforcement is provided at a rear of the exchangeable high-heel that extends from a top to approximately a bottom of the exchangeable high-heel and carries a catch proximate the top thereof. The latch includes a flange that engages the catch while the latch is normally biased.

Inventors

ANDERSON JUANITA

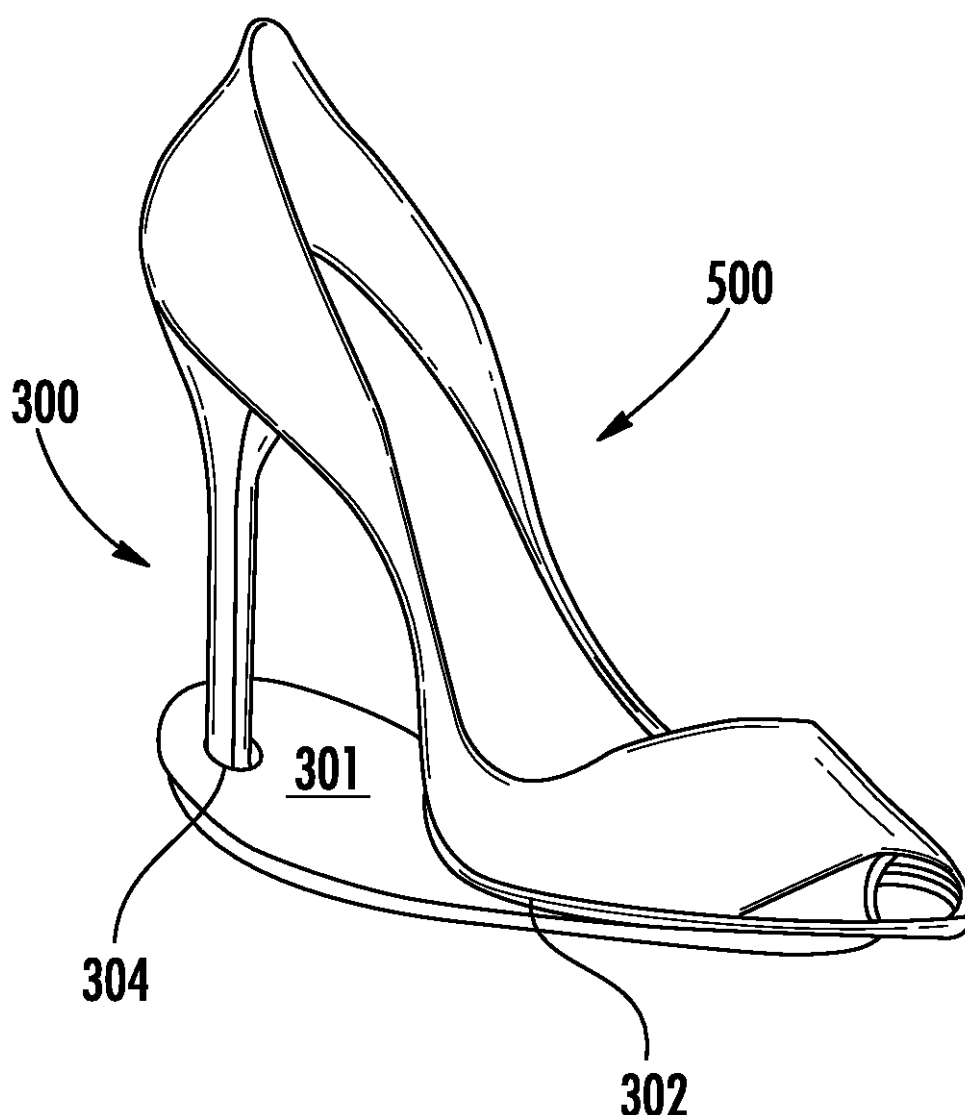
Family 405/432 - FAMPAT - ©Questel

Title

(EP2782465)

Apparatus and methods for providing stability for heeled shoes

Images



Publication data including kind & date

EP2782465	A4	2015-09-09	EP2782465
AU2012340778	B2	2015-06-18	AU2012340778
CN104203025	A	2014-12-10	CN104203025
EP2782465	A1	2014-10-01	EP2782465
MX2014006295	A	2014-09-22	MX2014006295
AU2012340778	A1	2014-07-10	AU2012340778



[US20130139411](#)

A1 2013-06-06 US20130139411

[WO2013/078203](#)

A1 2013-05-30 WO201378203

[CA2856774](#)

A1 2013-05-30 CA2856774

Abstract

(EP2782465)

Apparatus and methods for providing enhanced stability to the wearer of a heeled shoe. In one embodiment, the apparatus enables individuals to walk on soft or uneven surfaces while wearing heeled shoes with increased stability. The stability apparatus is composed of a substantially planar plastic body having one or more means to permit affixing the apparatus to the bottom of a heeled shoe. The bottom surface of the apparatus may be further adapted to provide additional support by comprising a material which provides traction. The apparatus is in one embodiment minimally visible from most angles which a third party would view the shoe to which it is attached. This may be further facilitated by forming the apparatus out of a transparent material.

Inventors

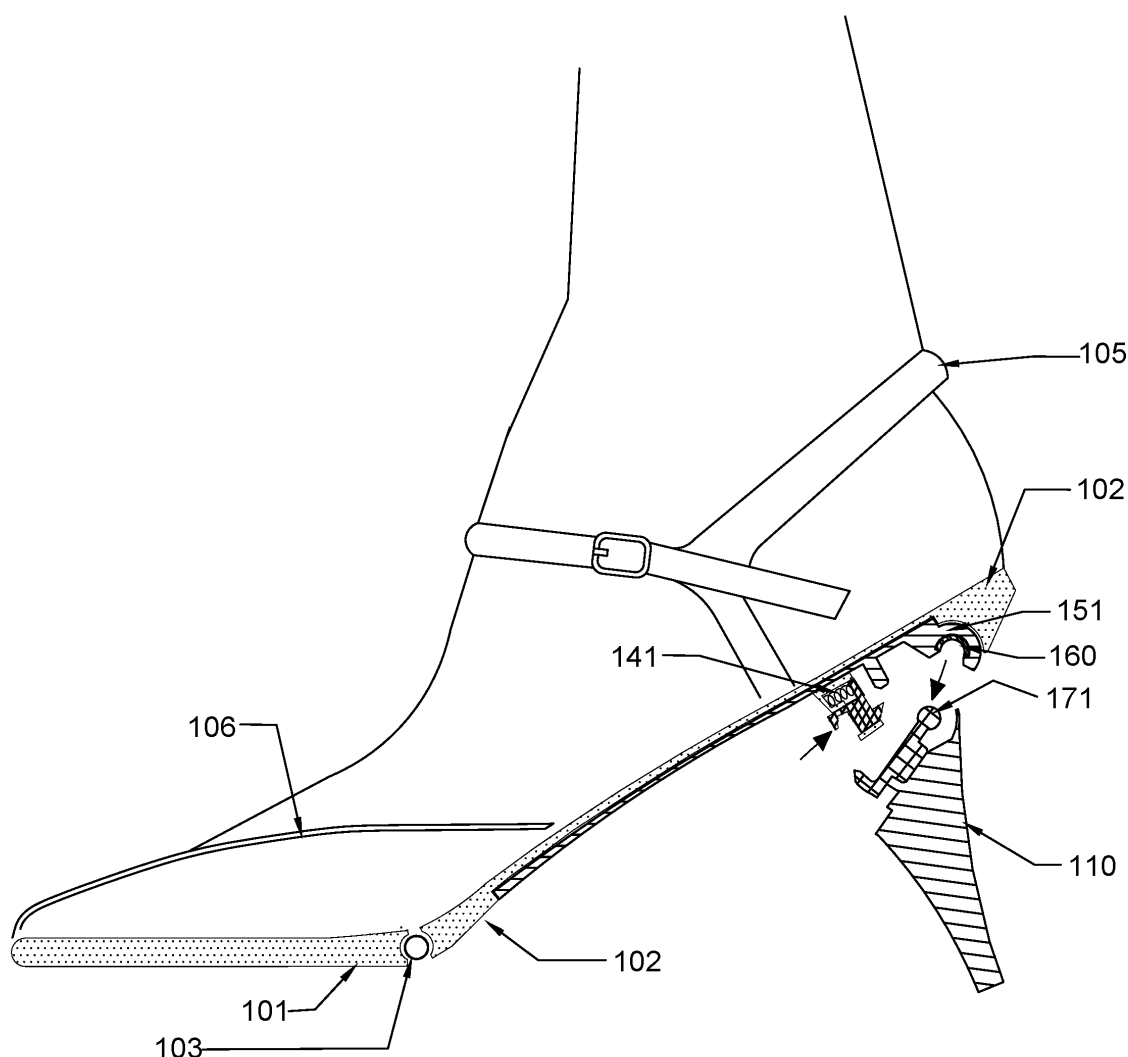
WHITE SHERYL

Family 406/432 - FAMPAT - ©Questel

Title

(EP3334307)

Combination shoe that can be transformed into a shoe with different heel heights

Images

EP3334307	A4	2019-04-03	EP3334307
MX2018001869	A	2019-02-20	MX2018001869
US20180220732	A1	2018-08-09	US20180220732
EP3334307	A1	2018-06-20	EP3334307
CN108024598	A	2018-05-11	CN108024598
US9936761	B2	2018-04-10	US9936761
WO2017/027804	A1	2017-02-16	WO201727804
US20170042276	A1	2017-02-16	US20170042276
CA2995503	A1	2017-02-16	CA2995503



Abstract

(EP3334307)

A shoe assembly includes a front sole section, a rear sole section, a heel, and a hinge. The front sole section has a front sole section rear edge. The rear sole section includes a rear sole section front edge, a shank, and a release button. The heel may be removably attached to the shank and may be released from a locked position by the release button. The hinge connects the front sole section and the rear sole section. The hinge is perpendicular to a rear sole section axis.

Inventors

ALAN BRAD

Latest standardized assignees - inventors removed

BRAD ALLEN

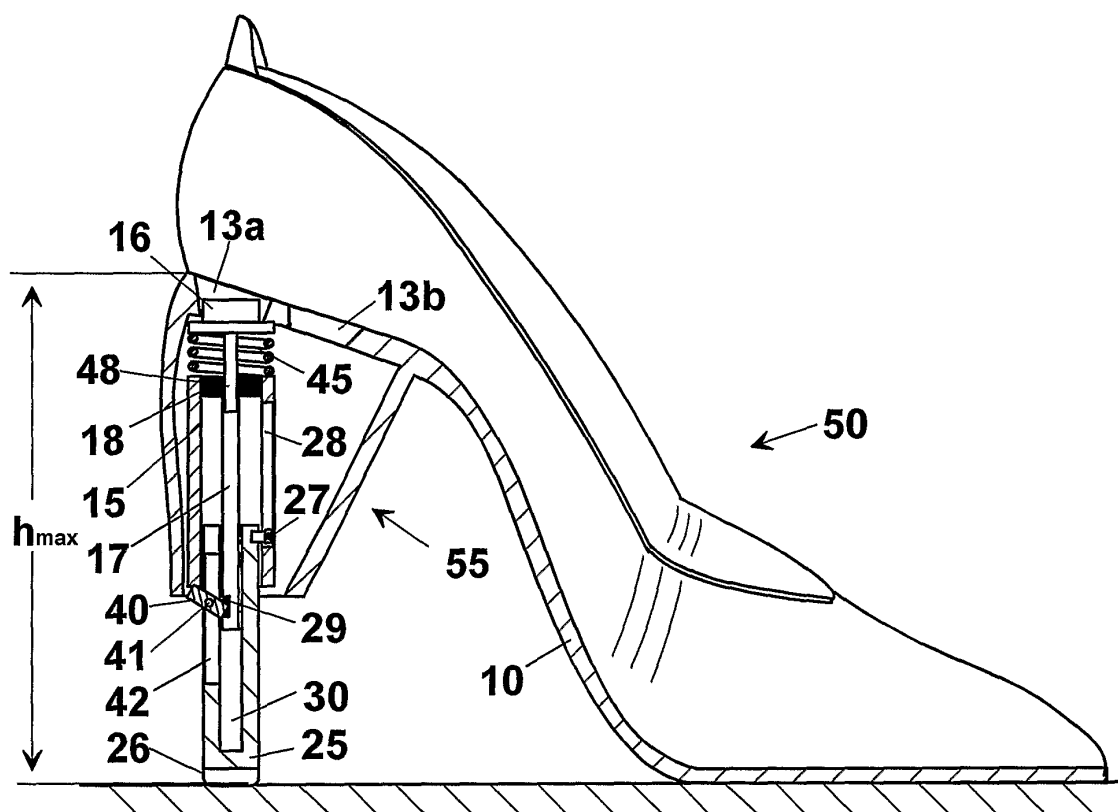
Family 407/432 - FAMPAT - ©Questel

Title

(WO2007113652)

Variable height heel structure for shoes

Images



WO2007/113652	A3	2008-04-24	WO2007113652
WO2007/113652	A2	2007-10-11	WO2007113652
ITPI20060039	A1	2007-10-05	IT2006PI0039

**Abstract**

(WO2007/113652)

Variable height heel structure (1) for shoes (50) comprising a first cylindrical portion (15) made of stiff material, for example of a metal material, or of plastic material, coupled telescopically to a cylindrical portion (25) also of stiff material and sliding with respect to first the portion (15) along a longitudinal axis (7) . In particular, the second portion (25) passes from a first position, corresponding to a minimum height (hmin) of the heel (1) , to a second position corresponding to a maximum height (hmax) of the heel (1) same. The sliding of the second portion (25) with respect to the first portion (15) can be guided, for example, by a pin (27) sliding in a slotted hole (28) made in the first portion (15) . At the first and the second position, the heel (1) engages respectively in a housing (13a) , or a housing (13b) , which crosses the sole (10) of the shoe (50) . More in detail, the first housing (13a) and the second housing (13b) take different angular positions to allow the maintainment of the correct posture of the foot both at the minimum and at the maximum height of the heel (1) .

Inventors

QUARANTA ELISABETTA

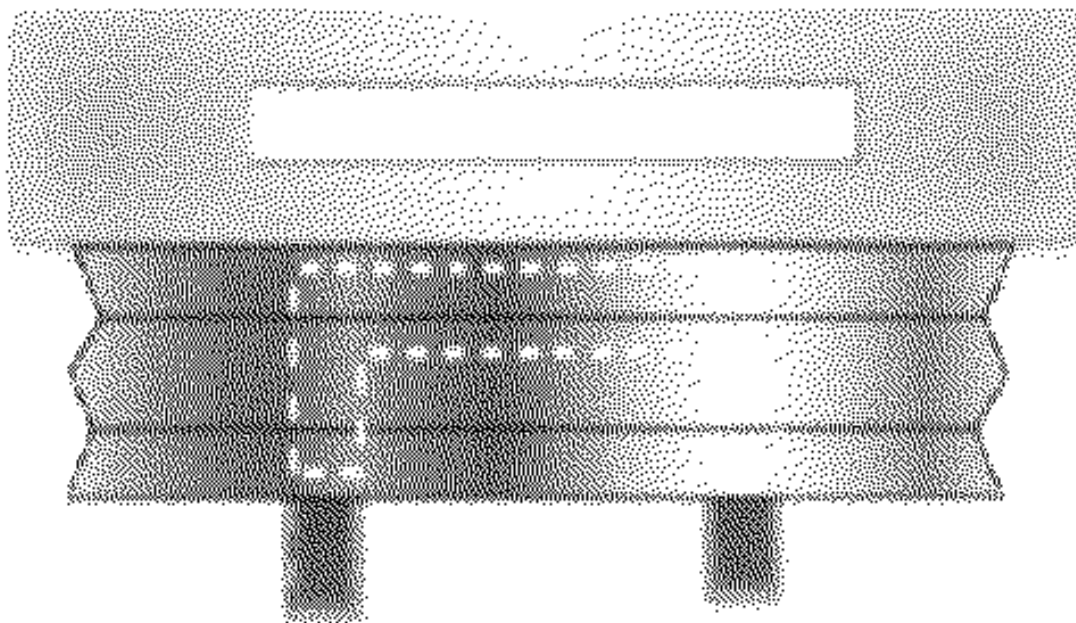
NENCINI LORENZO

Family 408/432 - FAMPAT - ©Questel

Title

(US8046936)

Removable shoe heel assembly for women's footwear

Images**Publication data including kind & date**

US8046936	B1	2011-11-01	US8046936
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**Abstract**

(US8046936)

A removable shoe heel assembly that allows removal of a woman's shoe or boot heel, preferably a circular shaped housing unit configured to the underside of a woman's shoe or boot shank having a gravity lock to prevent movement when the removable shoe heel is attached. The gravity lock settles into a first furrow disposed in the housing unit and falls into a

second furrow disposed in the removable shoe heel when turned upright, in a vertical position, both parts having a connecting means and a receiving means, respectively. By turning the woman's shoe or boot upside down the gravity lock falls into the first furrow area thereby making removal and reattachment of the removable shoe heel possible.

Inventors

SIMON LISA

Latest standardized assignees - inventors removed

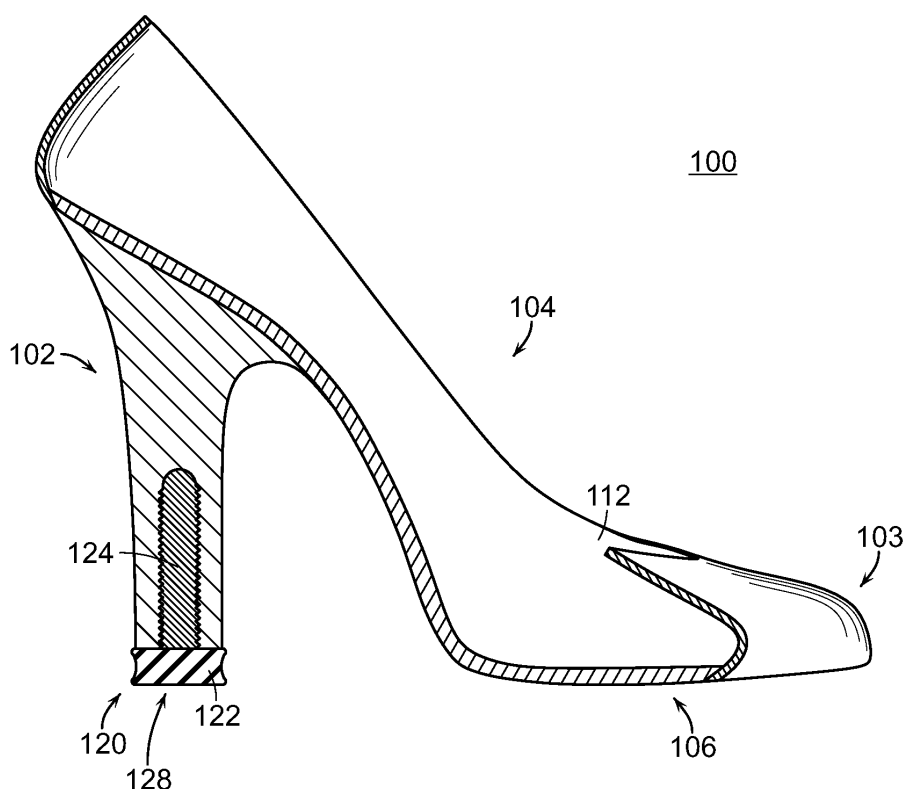
DRASTIC SHOES

Family 409/432 - FAMPAT - ©Questel

Title

(US20150230555)

Article of footwear with removable and height adjustable heel

Images**Publication data including kind & date**[US20150230555](#)

A1 2015-08-20

US20150230555

**Abstract**

(US20150230555)

The present disclosure provides for an article of footwear having an interchangeable, height adjustable heel. The article of footwear has a recess in the heel portion. The height adjustable heel engages and is secured to the article of footwear by way of the cylindrical recess. The interior surface of this recess is preferably threaded, although it may have some other property that also enables securement of the height adjustable heel. The height adjustable heel has a connecting section and a base section. The connecting section engages the cylindrical recess. The base section can be of varying sizes allowing the article of footwear to take on a number of appearances and be worn in a variety of settings.

Inventors

SAINT LOUIS ANATALIE

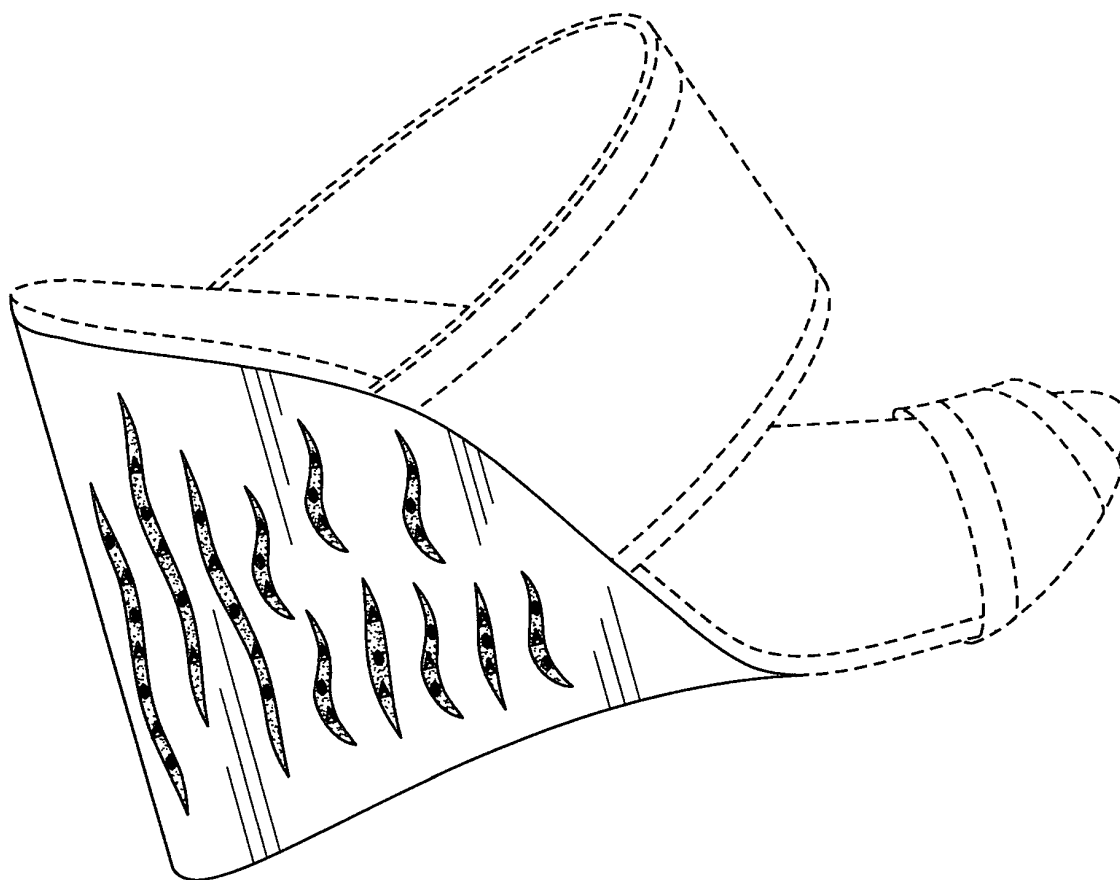
Family 410/432 - FAMPAT - ©Questel

Title

(US20180000198)

Method of Decorating Shoes and Decorated Shoes

Images



Publication data including kind & date

[US20180000198](#)

A1 2018-01-04

US20180000198



Abstract

(US20180000198)

A decoration for a shoe element and a method of decorating a shoe element includes the steps of cutting a substrate to correspond to the shape of the shoe element and applying decorative elements to the substrate. Openings are cut in a protective cover to align with areas where the decorative elements are applied to the substrate. The protective cover and the substrate are aligned, including aligning the openings in the protective cover with the decorative elements on the substrate. In the process, the substrate is coupled to the protective cover to form a one piece, and the one piece is coupled to the shoe element. The decoration, once installed on the shoe, includes the substrate under the protective cover with raised decorative elements appearing through the openings.

Inventors

CHAMBERLAIN KARYN

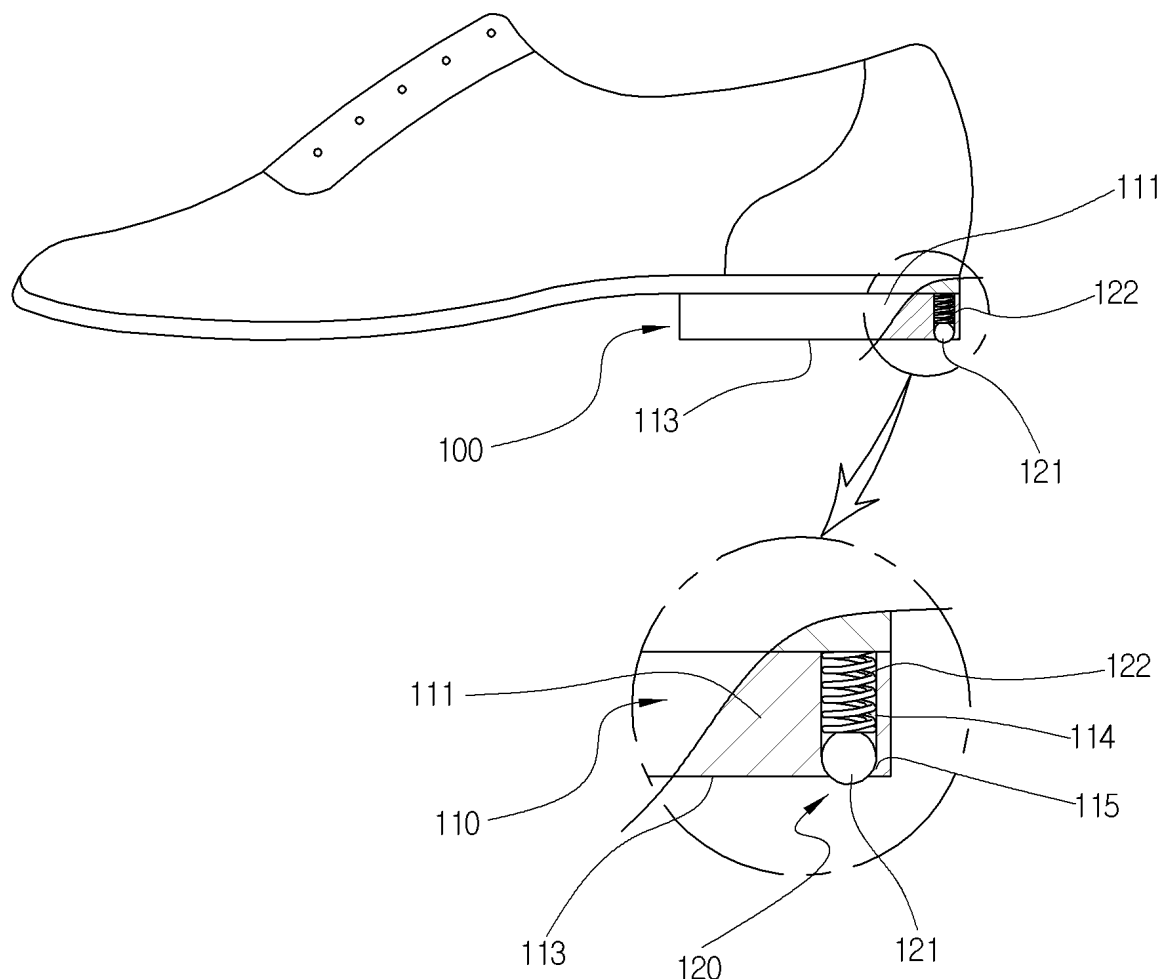
Family 411/432 - FAMPAT - ©Questel

Title

(KR200412048U)

Attrition Preventive Device for Foot Wear Heel

Images

**Publication data including kind & date**

KR200412048

Y1

2006-03-22

KR200412048U

**Abstract**

(KR200412048)

This invention relates to prevent abrasion of the heel in the device, so that the attachment attached to the bottom of the shoe upper and the lower surface (112) in contact with the floor to form a bottom side with a (113) constant height to form a heel (111), heel (111) to one side of a plurality of through holes provided in the shape of a ball (114) is formed with a plurality of, installation tools (114) in the bottom of the reduced diameter toward the bottom surface of (113) the jaw (115) of the jaw portion (110) formed with the shoe, the shoe engaging (110) portion may be inserted into the installation tools (114) of the lower jaw (115) is formed so as to prevent the insert seated in an opening (121) in the form of a spherical shape, the top of the structure (121) to prevent the elastic spring (122) to elastically support the opening (121) to prevent insertion of the elastic force of the elastic spring (122) support to minimize wear and tear portion to (120) form characterized by making.

Inventors

PARK, DONG YOUN

Family 412/432 - FAMPAT - ©Questel

Title

(US3646497)

Shoe with interchangeable heels

Images

Fig. 1

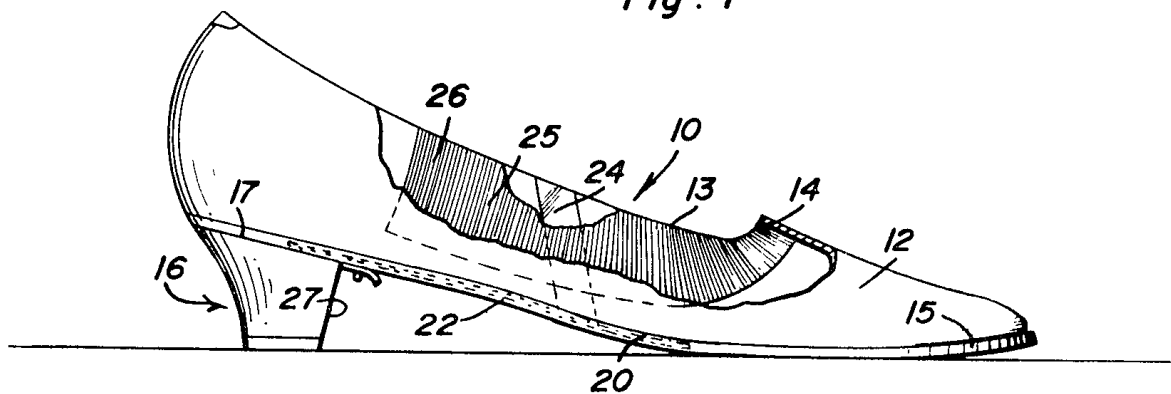


Fig. 2

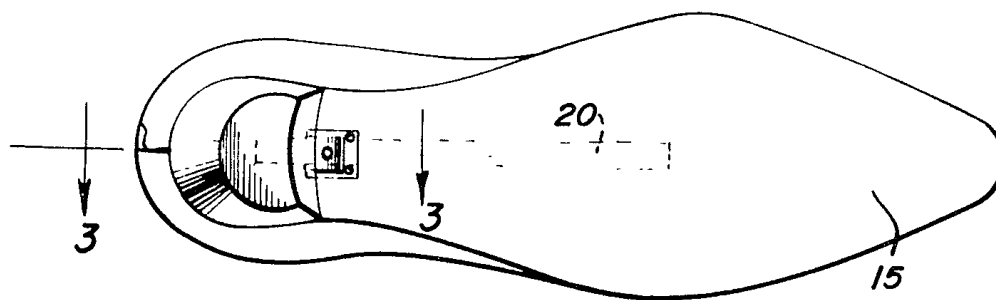


Fig. 7

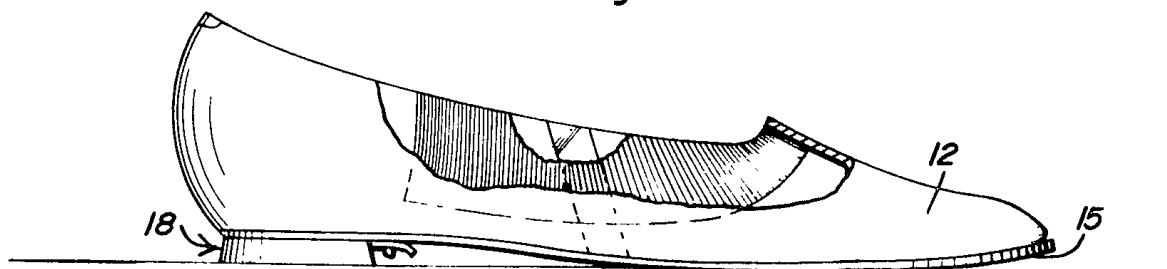
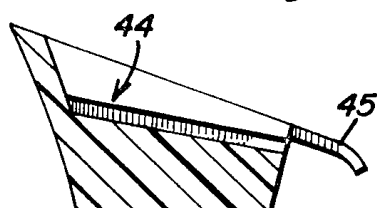


Fig. 6



Bobby G. Gillikin
INVENTOR.

BY *Charles A. O'Brien*
and *Harvey B. Jacobson*

(US3646497)

A shoe construction having angle irons mounted to the heel seat of the shoe for slidably mounting interchangeable low and high heels. An arch supporting plate is attached to the shoe shank for rendering vertical support to the shank when a high heel is utilized. An elastic band is attached to the upper opening for retaining the upper snugly against the wearer's foot. Stiffening strips are attached to oppositely disposed vertical arch portions of the shoe to prevent outward bulging of this shoe portion when the high heel is employed.

Inventors

GILLIKIN BOBBY G

Latest standardized assignees - inventors removed

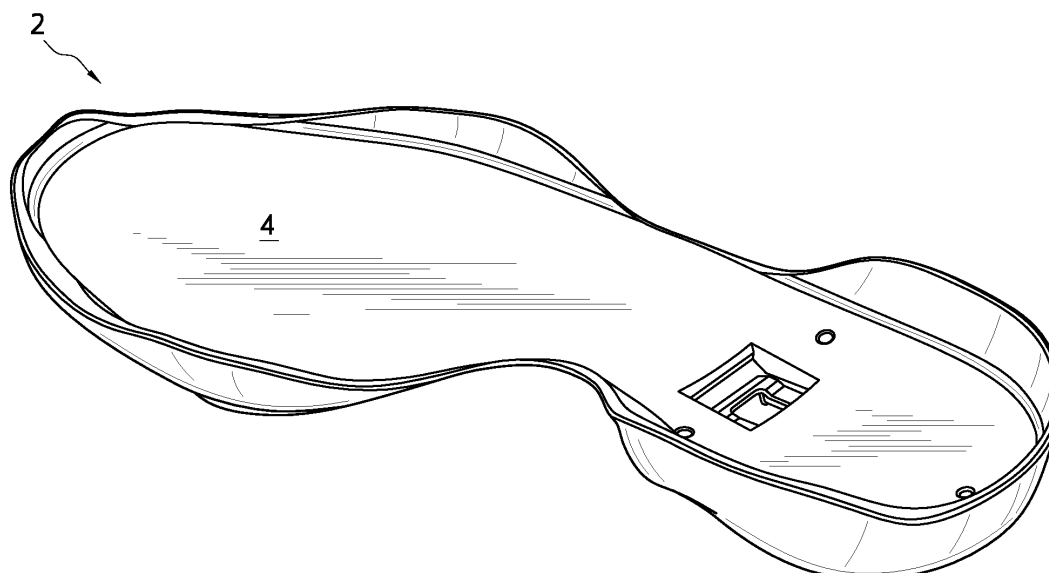
WILLIS MARTHA ANN HARKERS ISLAND NC

Family 413/432 - FAMPAT - ©Questel

Title

(US20150089833)

Shoe sole and interchangeable heel

Images**Publication data including kind & date**[US20150089833](#)

A1 2015-04-02

US20150089833

**Abstract**

(US20150089833)

A shoe sole and heel assembly includes a sole, an interchangeable heel removably connected with the sole, and at least one locking device for fixing the heel to the sole. The sole includes a wall extending from the heel area of the lower surface of the sole to define a cavity. The inner surface of the wall contains a channel. The heel includes a track extending from the side and rear portions of the heel. The heel is arranged adjacent to the sole with the heel track entering the sole channel. As the heel is displaced rearwardly, the track enters the channel of the sole and prevents vertical and lateral movement of the heel relative to the sole. A latch on the lower surface of the sole engages a notch on the upper surface of the heel to prevent longitudinal displacement of the heel. The sole and heel contain aligned threaded openings for receiving screws to secure the heel to the sole.

Inventors

TSAI CHANG-YEN

Latest standardized assignees - inventors removed

BALLET MAKERS

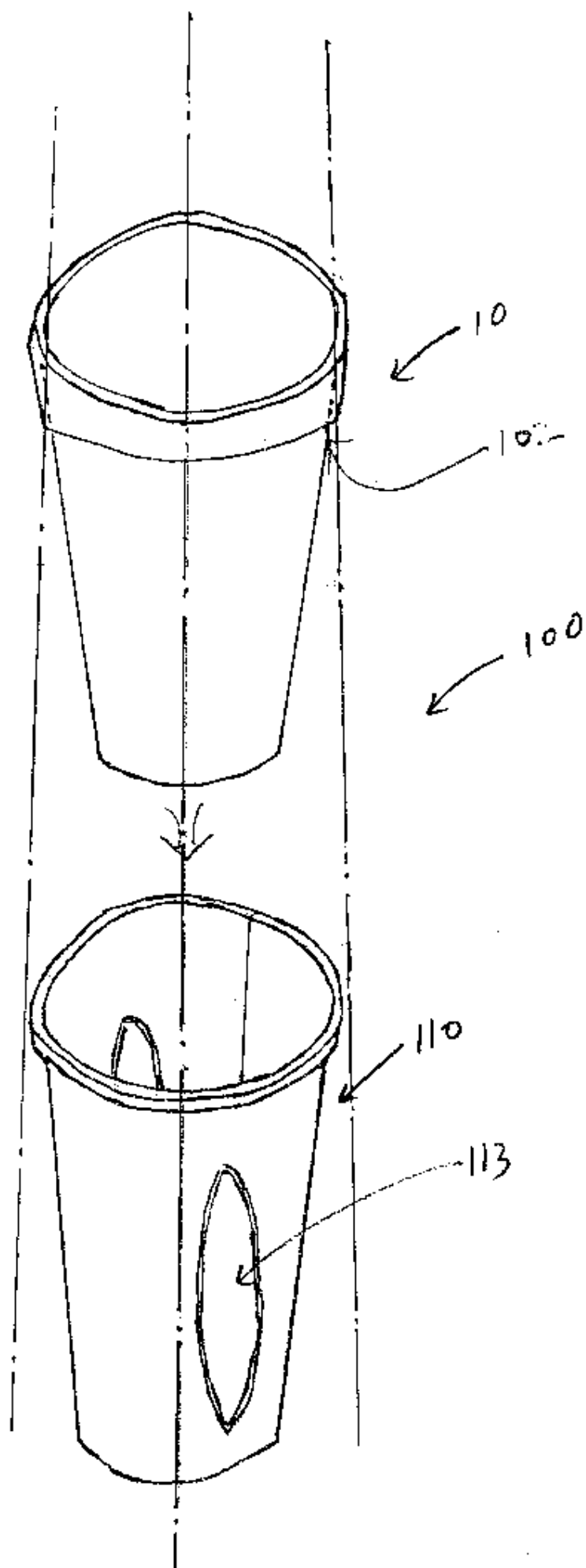
Family 414/432 - FAMPAT - ©Questel

Title

(WO2014196818)

Synthetic resin cup, cup set, spring-loaded cup, instant noodles, package container, flower pot, hat and shoes

Images



Publication data including kind & date[WO2014/196818](#)

A1 2014-12-11

WO2014196818

**Abstract**

(WO2014/196818)

The present invention relates to a synthetic resin cup comprising: a cup of synthetic resin material, the bulk of the cup, inserted from the bottom to the top, expanding and contracting, having an elastic recessed gap around the outer edge of the top rim; and a holder for supporting the cup by housing the length of the cup, from the bottom to the top rim, in close contact to economize on the synthetic resin. Additionally, the present invention relates to the synthetic resin cup in which the cup and the holder hook onto each other to be coupled. Furthermore, the present invention relates to the synthetic resin cup in which, if the cup is made of transparent material, the contents of the cup can be seen from the outside through the exterior thereof.

Inventors

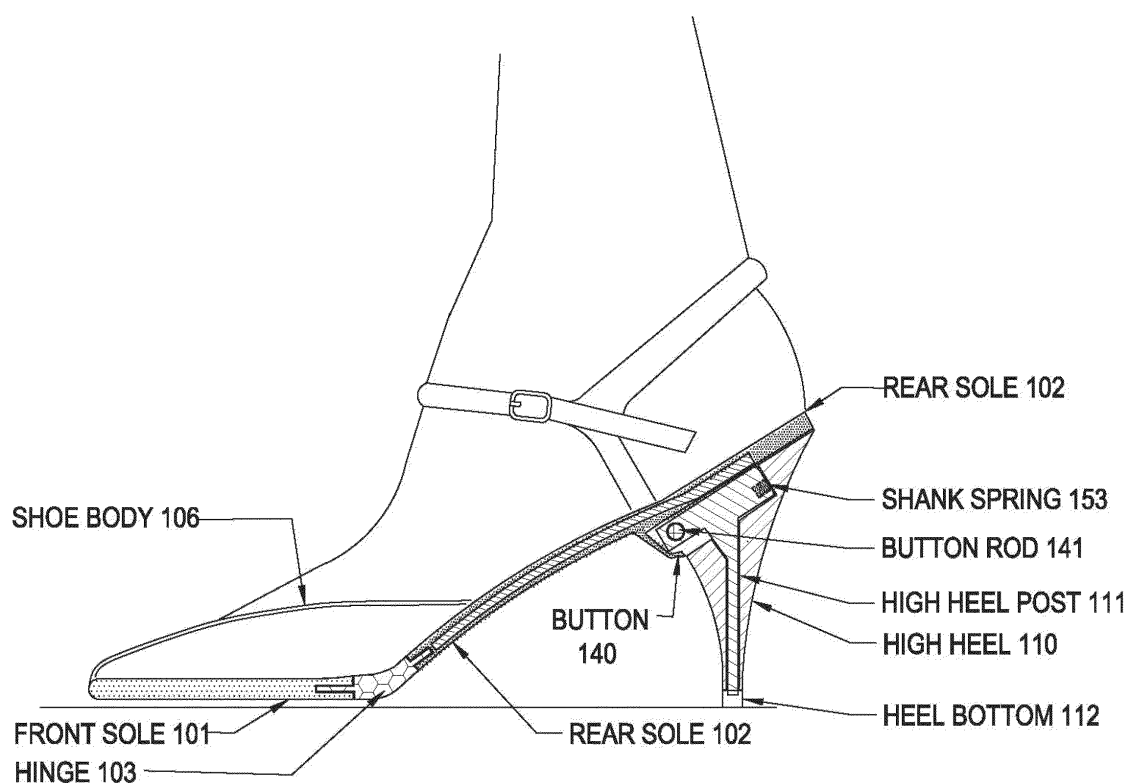
SUNG HYUN WOOK

Family 415/432 - FAMPAT - ©Questel

Title

(US20140298685)

Transformable shoe having a sole that allows different height heels to be detached and attached easily

Images**Publication data including kind & date**[CN104544731](#)

A 2015-04-29

CN104544731

[US20140298685](#)

A1 2014-10-09

US20140298685

**Abstract**

(US20140298685)

A shoe assembly includes a front sole section, a rear sole section, a heel, and a hinge. The front sole section has a front sole section rear edge. The rear sole section includes a rear sole section front edge, a shank, and a release button. The heel may be removably attached to the shank and may be released from a locked position by the release button. The hinge

connects the front sole section and the rear sole section. The hinge is perpendicular to a rear sole section axis.

Inventors

ALAN BRAD

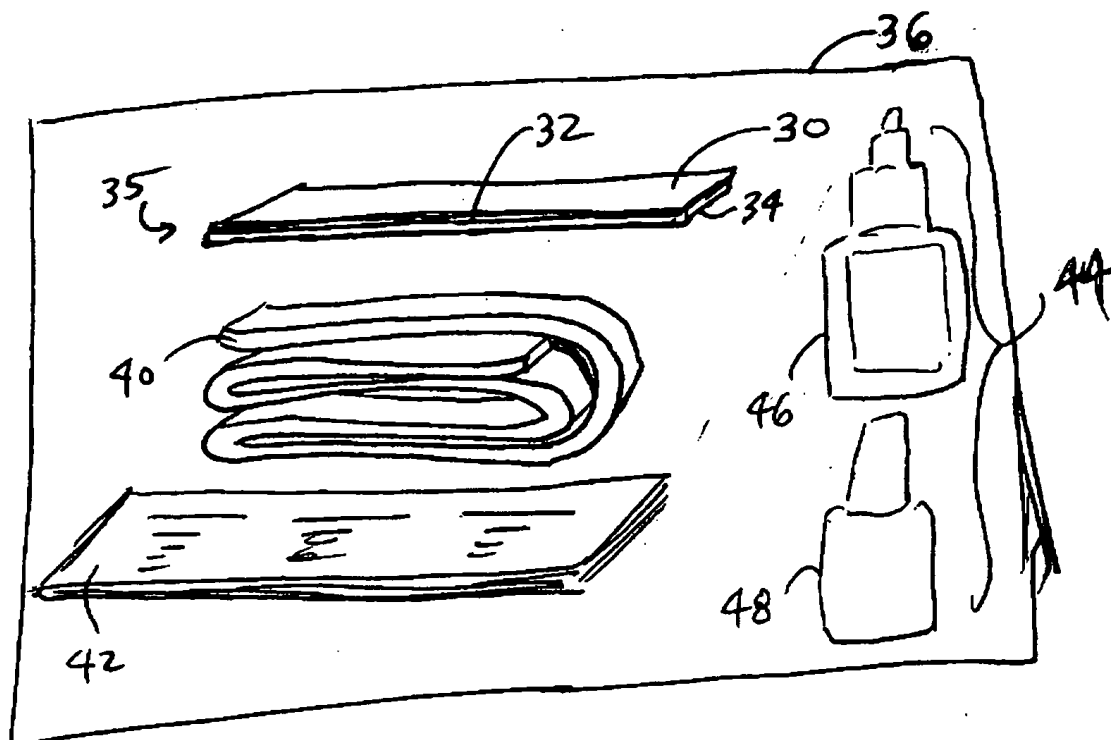
ALLEN ELIZABETH

Family 416/432 - FAMPAT - ©Questel

Title

(US20070051016)

Rear foot support

Images**Publication data including kind & date**[US20070051016](#)

A1 2007-03-08

US20070051016

**Abstract**

(US20070051016)

A kit is provided to provide a rear foot support for shoes. The kit includes a flexible member, a removable securing mechanism, and instructions. The instructions describe the use of the flexible member and the removable securing mechanism on shoes, and they recommend the use of the same to support one of a wearer's heel or ankle to a shoe. The kit further includes packaging to contain the flexible member, the removable securing mechanism, and the instructions.

Inventors

ZORIN REBECCA R

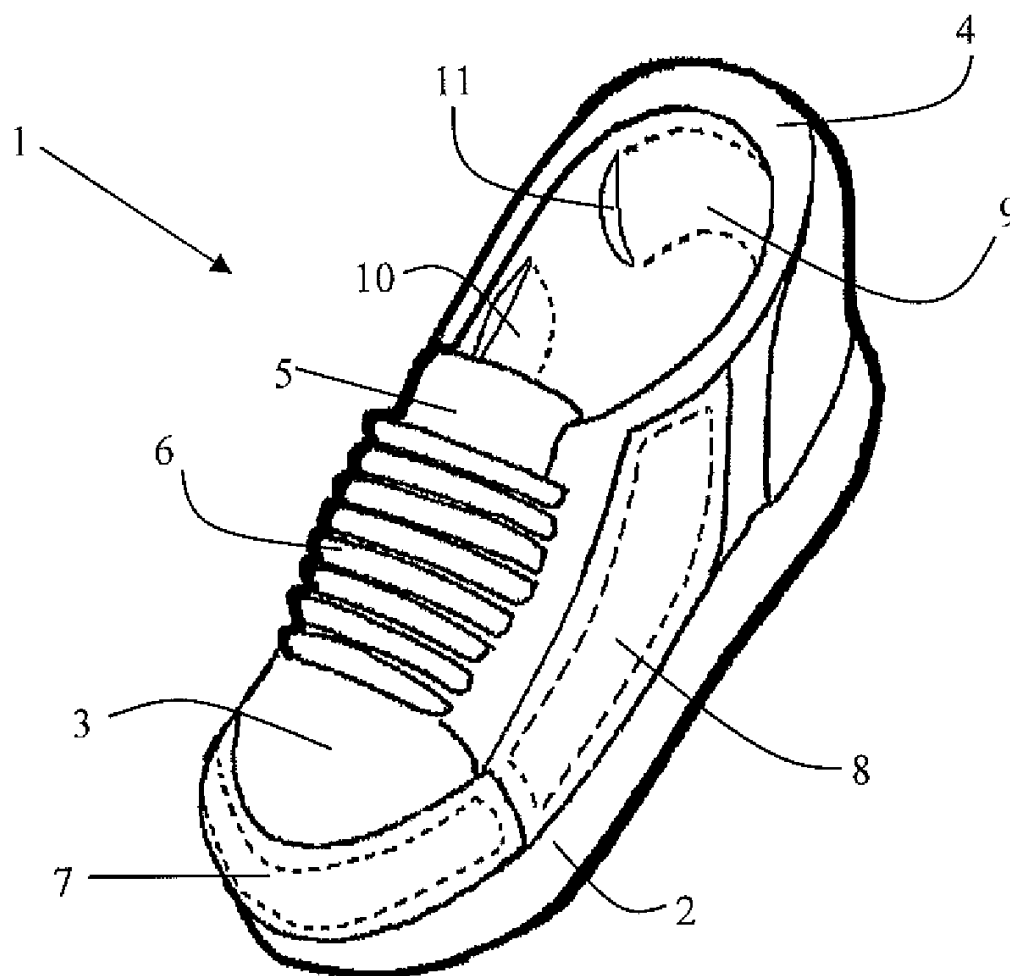
Family 417/432 - FAMPAT - ©Questel

Title

(US20120324764)

Shoes with Replaceable Design Pieces and Illumination

Images

**Publication data including kind & date**[US20120324764](#)

A1 2012-12-27

US20120324764

**Abstract**

(US20120324764)

The invention describes a safety replaceable heel mechanism that is used to adjust the height of women's shoes. The mechanism comprises a shoe sole, a removable heel comprising a heel connector and an interchangeable heel, and a locking key to securely connect the removable heel to the shoe sole. The heel is detached and the shoe can be worn without the heel, providing a pair of shoes suitable for different occasions. The invention provides a stable structure avoiding unwanted movement of the removable heel for adjusting the comfort of a particular pair of shoes during the course of a day.

Inventors

VELEZ-CRUZ LUIS YOHAN

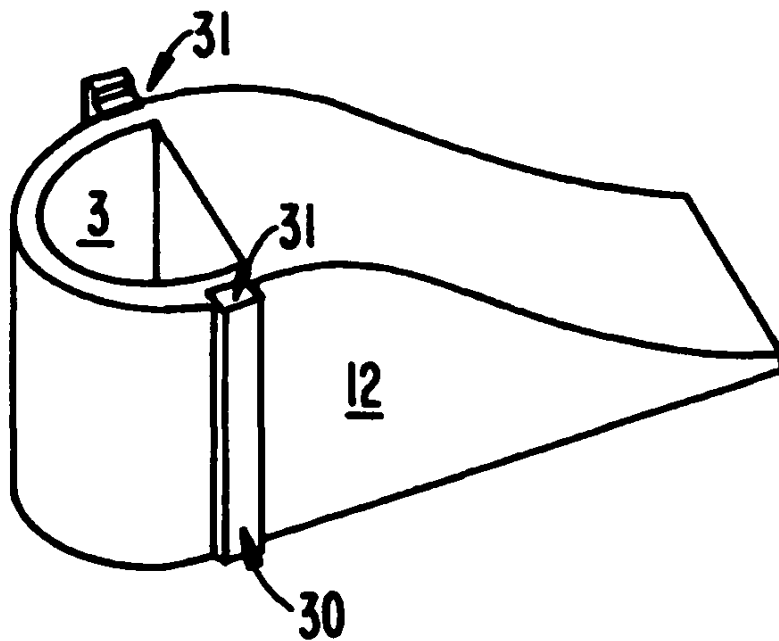
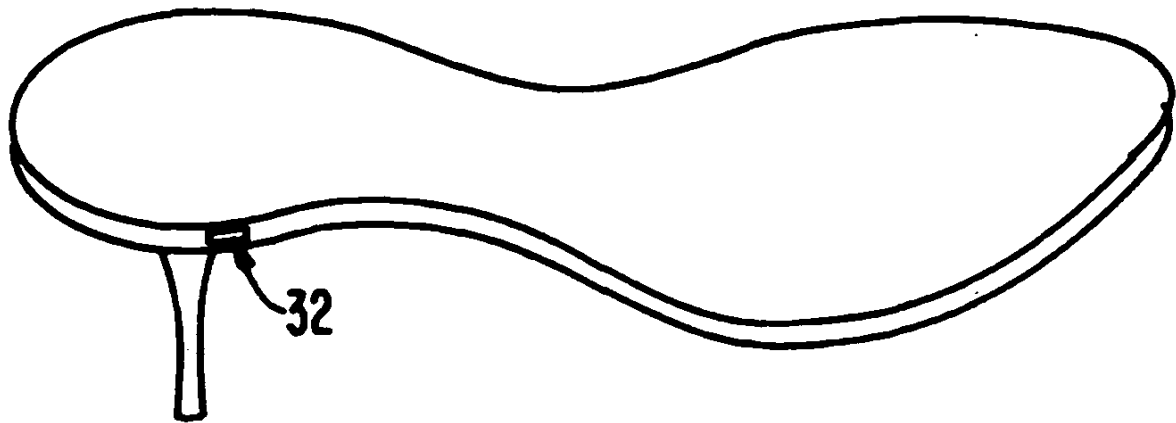
Family 418/432 - FAMPAT - ©Questel

Title

(US20060196082)

Modular heel assembly for high heel shoes

Images

**Publication data including kind & date**[US20060196082](#)

A1 2006-09-07

US20060196082

**Abstract**

(US20060196082)

The present invention relates to a removable modular heel assembly that is attached to a high heel shoe, which shoe may be adapted to accept the assembly, and which assembly is designed to increase the surface area of the heel or shoe to enhance stability, comfort, and/or balance for the wearer.

Inventors

ROBBINS DAVID B

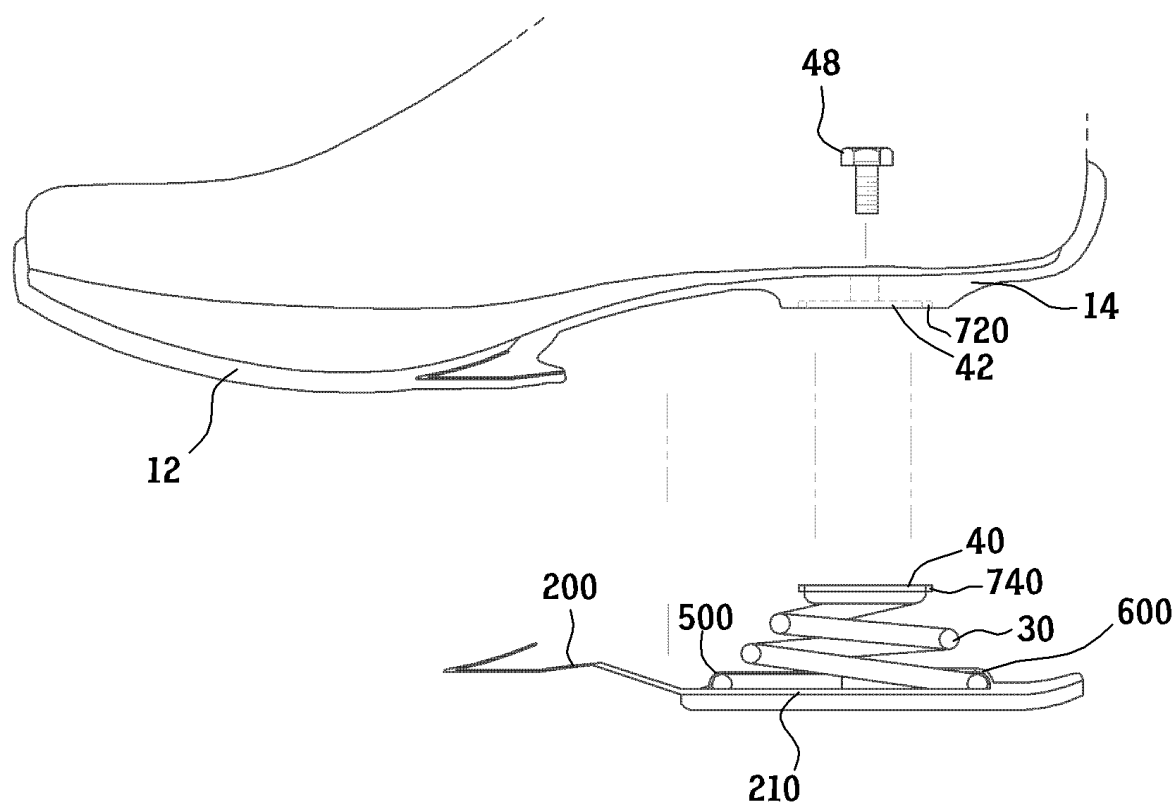
Family 419/432 - FAMPAT - ©Questel

Title

(KR101066592)

A spring shoes

Images



Publication data including kind & date

[KR101066592](#)

B1 2011-09-22

KR101066592

[KR20110028919](#)

A 2011-03-22

KR20110028919



Abstract

(KR20110028919)

PURPOSE: Spring footwear is provided to enable a user to conveniently separate and change a spring. CONSTITUTION: Spring footwear comprises a circular cap(500), a guide groove, and an arc cap(600). The circular cap fixes the bottom part of a spring(30). A horizontal plane is formed in the circular cap so that the bottom surface of the circular cap can adhere closely to the upper side of a bottom board in the horizontal state. The circular cap is made of synthetic resin and is forms the bottom of the spring into a ring type. The guide groove makes one side of the circular cap slide and combined. The arc cap is projected from the upper side of the bottom board.

Inventors

JU, JONG YUN

Latest standardized assignees - inventors removed

IXEX TB

KWON DONG HYUK

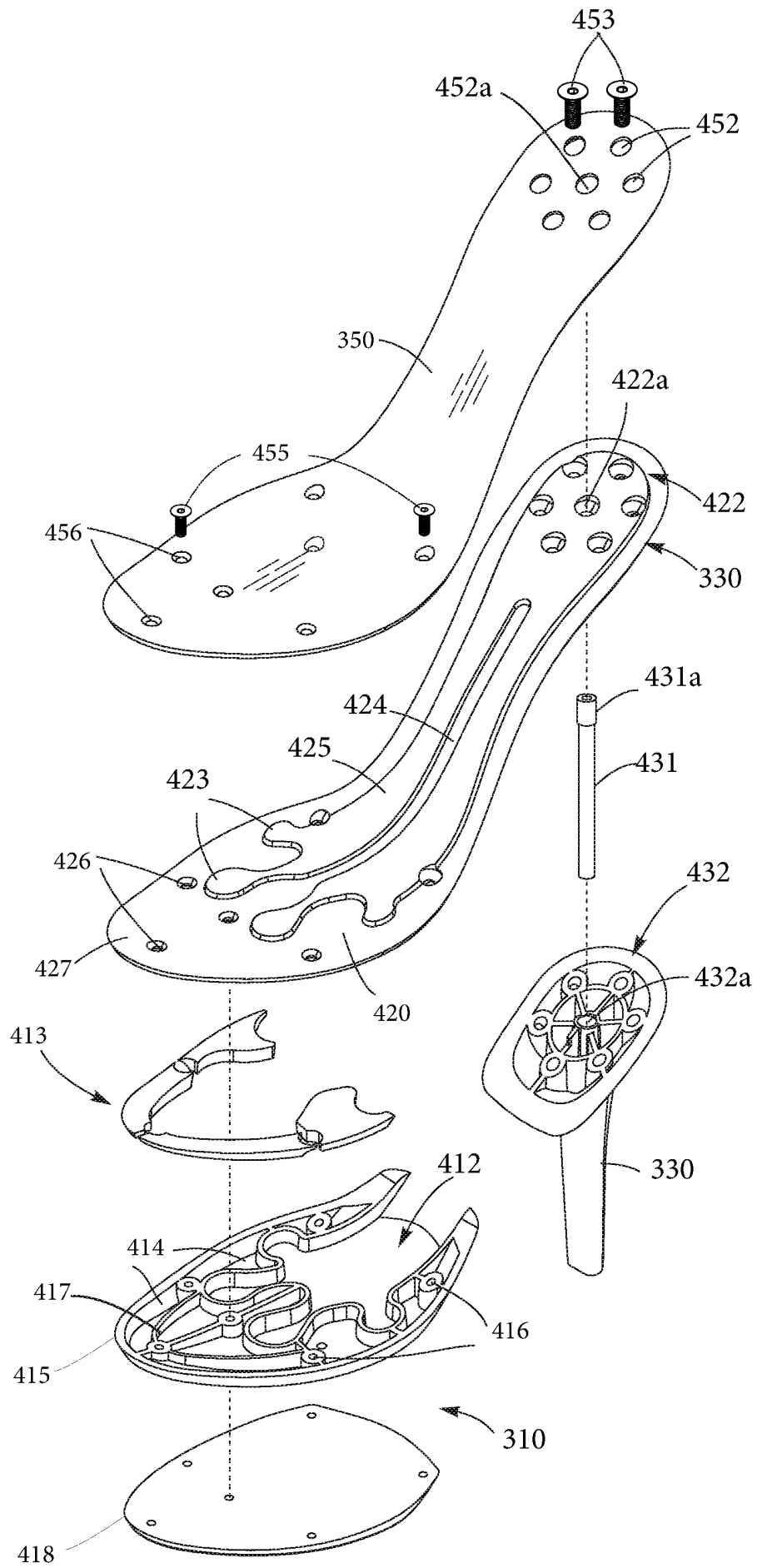
Family 420/432 - FAMPAT - ©Questel

Title

(EP3334306)

High heel shoe

Images



Publication data including kind & date

CN108348042	A	2018-07-31	CN108348042				
EP3334306	A1	2018-06-20	EP3334306				
US20180027925	A1	2018-02-01	US20180027925				
WO2017/031090	A1	2017-02-23	WO201731090				
US9510647	B1	2016-12-06	US9510647				

Abstract

(EP3334306)

There are disclosed high heel shoes where separate components combine to create load balancing internal footwear technology. A two-piece system includes interlocking toe bed and shank constructed of complex three dimensional curved surfaces which create an intricately sculpted volume to provide structural support down the length of the entire foot. The toe bed provides a wide base and keeps the big toe pointed straight (at an approximately 10 angle). A heel maximizes the surface area of the bottom of the heel at the point of strike with the ground while retaining a minimal and aesthetically appealing silhouette from the side view. The toe bed and shank feature a composition of layered materials which when combined work to provide both stability and shock absorption to the ball of the foot during the foot strike of walking. An internal support structure provides a padded barrier and intermediary between the rigidity of the shank and the softness of the shoe upper.

Inventors

SINGH NAVJEET K

THOMAS MATT

PARKES AMANDA

Latest standardized assignees - inventors removed

THESIS COUTURE

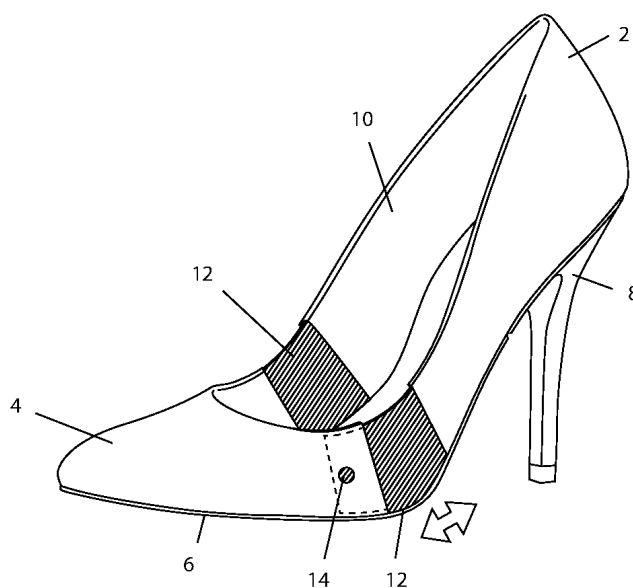
Family 421/432 - FAMPAT - ©Questel

Title

(US20160183625)

Women's shoes that interchange from high heel form to flat form

Images

100 **Publication data including kind & date**[US20160183625](#)

A1 2016-06-30

US20160183625

**Abstract**

(US20160183625)

The present invention is a shoe for women, which has a removable heel that would enable women to wear a single pair of shoes that can be used in either heel or flat form, whereby the shoe has a unique feature that allows the heel and flat component of the shoe to changeably lock in and unlock through an interlock.

Inventors

REZVI SAYID QAMBER REZA

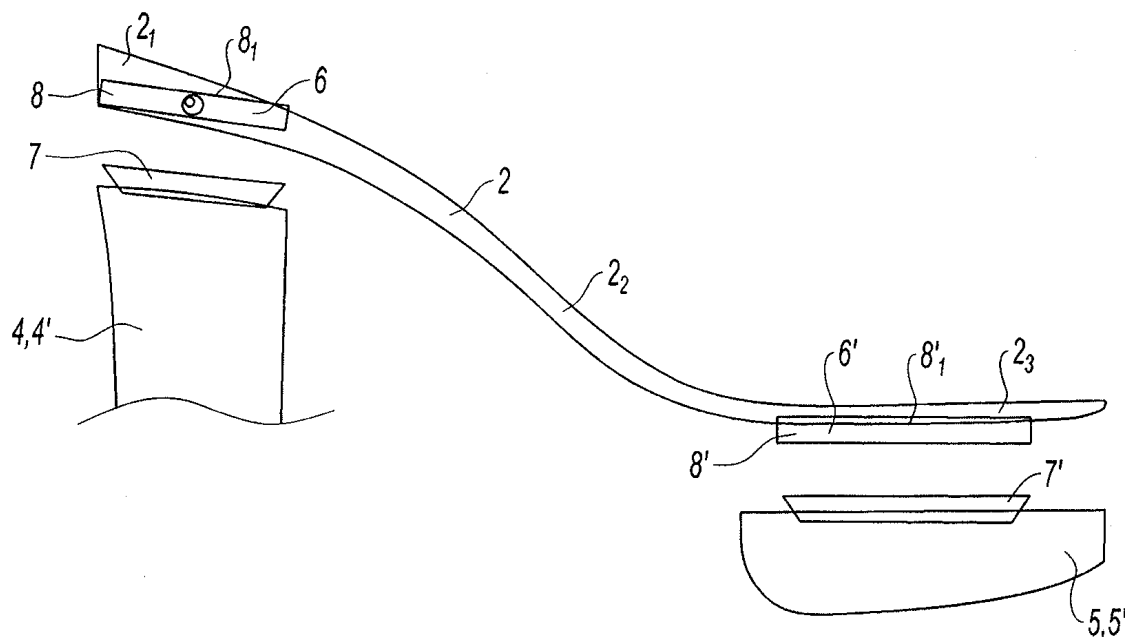
Family 422/432 - FAMPAT - ©Questel

Title

(FR3000875)

Footwear e.g. low fronted shoe, has sole sub-divided into heel, shank and front foot parts, and heel assembly comprising removable heel elements selectively fixed on sole by rotation at heel part by assembly unit and click-and-ratchet unit

Images

**Publication data including kind & date**

FR3000875

A1 2014-07-18 FR3000875

**Abstract**

(FR3000875)

The footwear has a sole (2) assembled with a stem and sub-divided into heel part, shank part and a front foot part while going from the back toward front of foot. A heel assembly comprises removable heel elements (4, 4') selectively fixed on the sole by rotation at level of the heel part by assembly unit and click-and-ratchet unit. The assembly unit includes a sole assembling plate (6) fixed to a lower part of the sole at the heel part and a heel assembling plate (7) fixed to an upper part of each of the heel elements.

Inventors

BRUN LESLIE

MONTOUSSE MAXIME

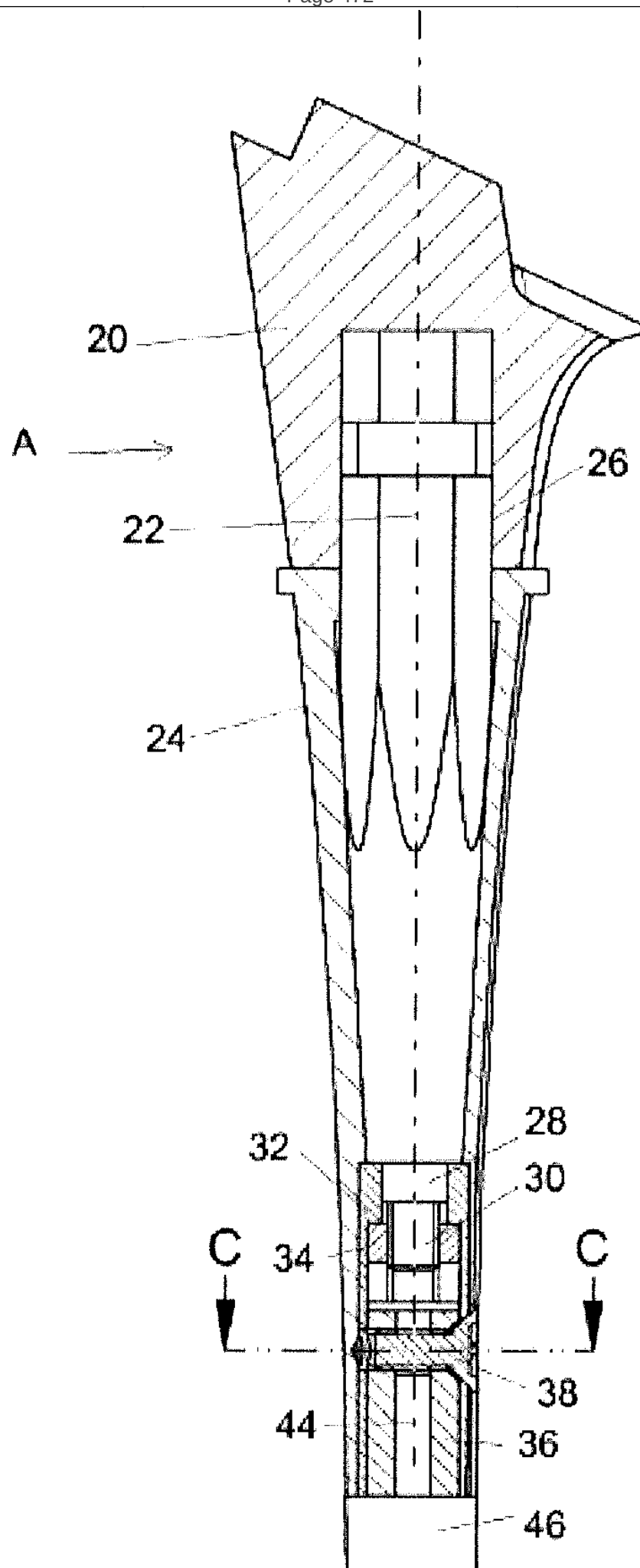
Family 423/432 - FAMPAT - ©Questel

Title

(DE202012101281)

Heel shoe heel having interchangeable

Images



Publication data including kind & date[DE202012101281](#)

U1 2012-06-28

DE202012101281

**Abstract**

(DE202012101281)

Having interchangeable shoe heel heel, wherein the heel by means of a security device is secured against rotation on a shoulder and body, characterized in, that a first point is located (22) in the heel, is connected to the holding unit (32), to which the heel lift (SAF) is attached.

Latest standardized assignees - inventors removed

LEIBER HEINZ

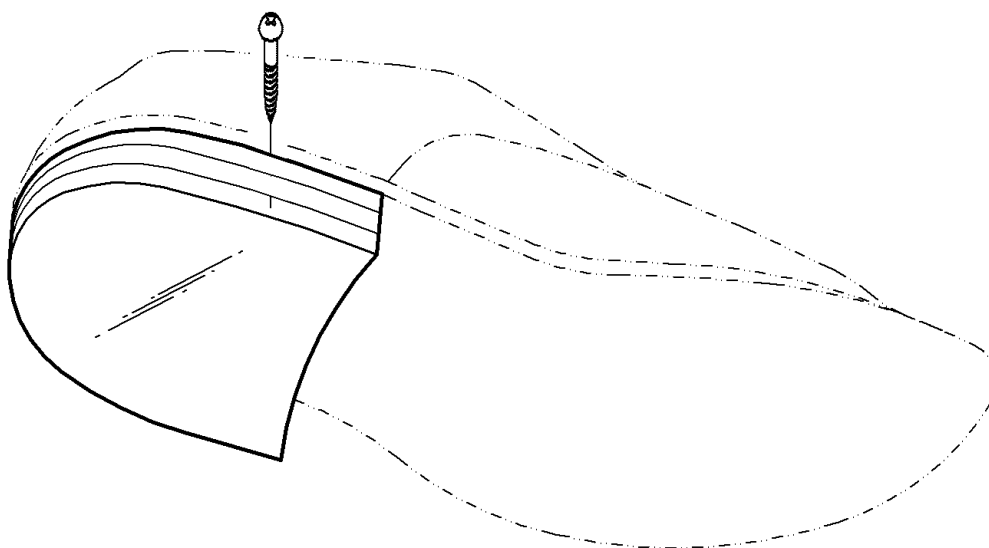
LEIBER KATRIN

Family 424/432 - FAMPAT - ©Questel

Title

(KR20100032951)

Shoe heel made of foamex boards and the method

Images**Publication data including kind & date**[KR20100032951](#)

A 2010-03-29

KR20100032951

**Abstract**

(KR20100032951)

PURPOSE: A shoe heel made of foamex boards and a manufacturing method thereof are provided to obtain excellent water-proofing property and durability and to conspicuously extend lifetime of the shoe heel. CONSTITUTION: A method for manufacturing a shoe heel which is made of foamex boards comprises the following steps: preparing materials of the heel by cutting the foamex boards out; coating both sides of the foamex board with a binder; stacking 2~15 sheets of the foamex board in which the adhesive is coated; hardening the laminated foamex board over 48 hours after compressing the foamex boards; cutting the hardened foamex boards out according to desired shape of the heel; and uniting with a sole with the adhesive or a screw spike by processing the cut foamex boards heel using a sandpaper.

Inventors

LEE, SEUNGGYU

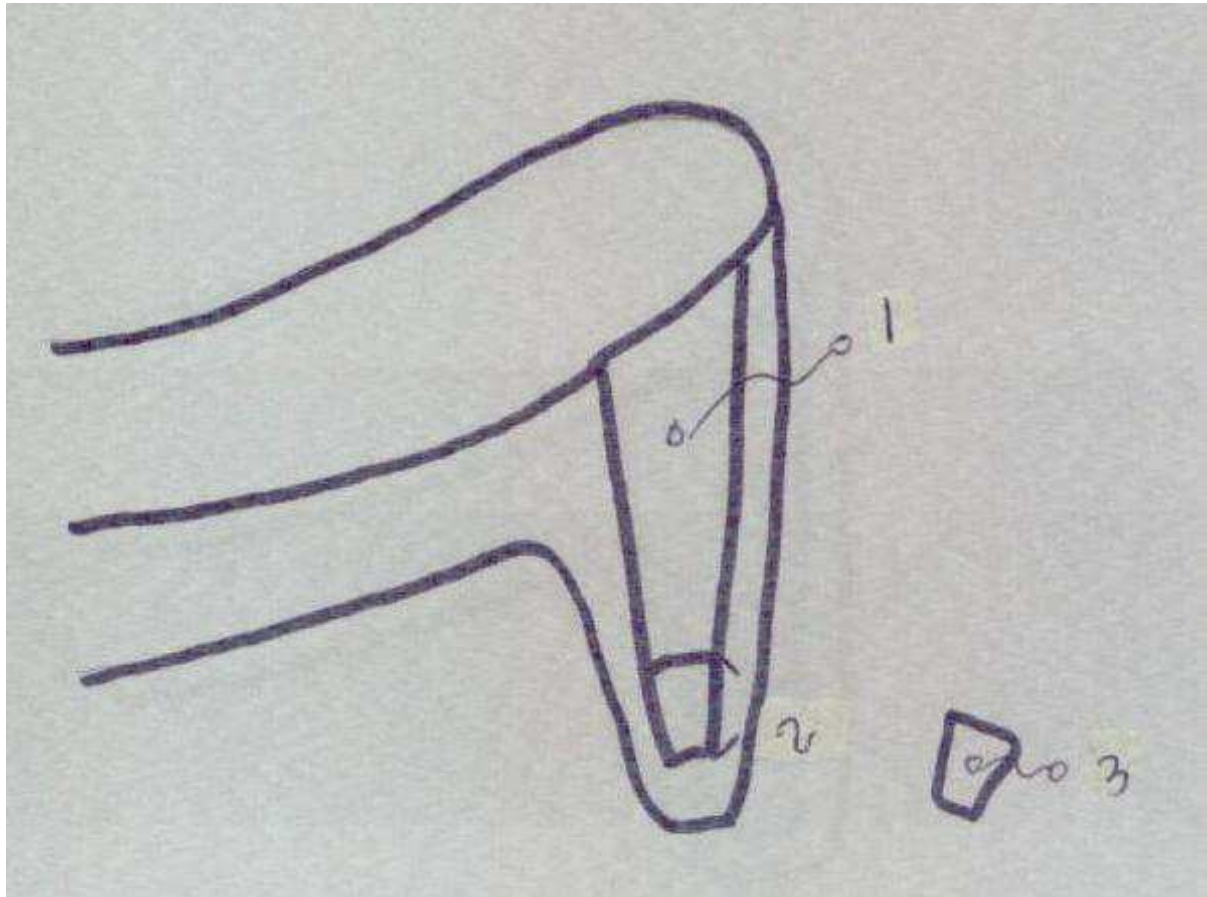
Family 425/432 - FAMPAT - ©Questel

Title

(KR20090005790U)

Prevention of noise for a heel

Images



Publication data including kind & date

[KR20090005790](#)

U

2009-06-15

KR20090005790U



Abstract

(KR20090005790)

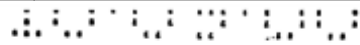
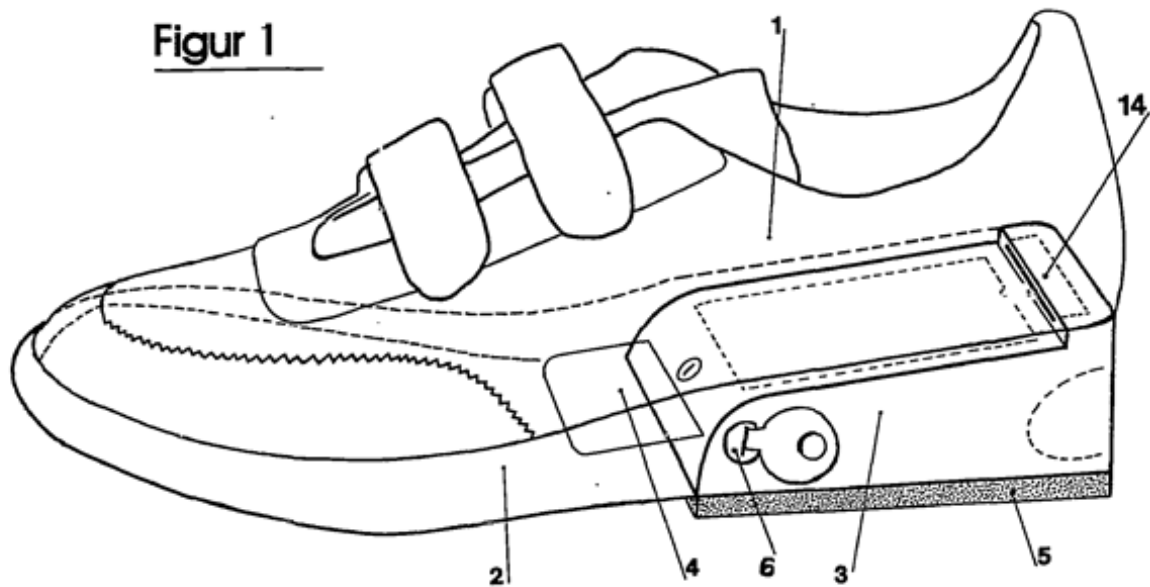
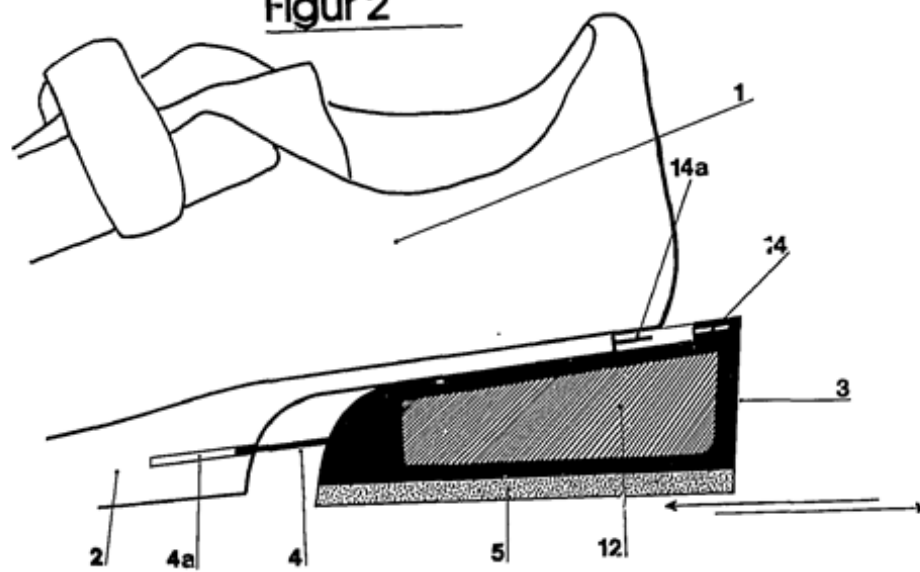
The present invention relates to a shoe is a detent to hold the end portion of the bar magnet on the spine and then producing a desired quiet is required as a side view of a building such as a trumpet or a library of heeled shoes in which noise is reduced to be small to thereby present at all in the study of the students, designed to increase the efficiency of a concentration became.

Inventors

YANG YeonJu

Family 426/432 - FAMPAT - ©Questel

Images

**Figur 1****Figur 2****Publication data including kind & date**[DE8624236](#)

U1 1987-01-08 DE8624236

**Latest standardized assignees - inventors removed**

STOSCHEK HORST GUENTER JULIUS 4100 DUISBURG

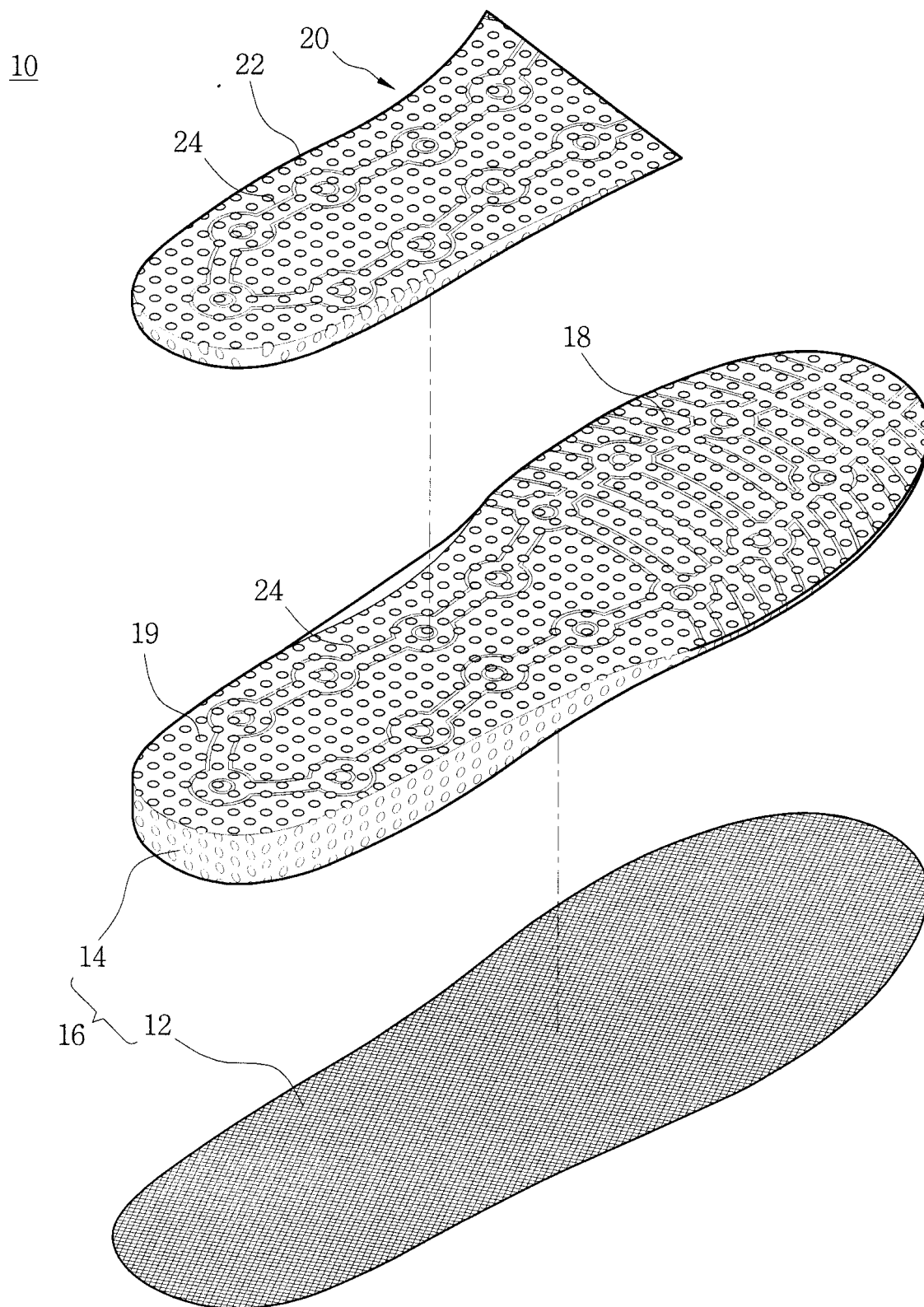
Family 427/432 - FAMPAT - ©Questel

Title

(US9392837)

Interchangeable shoe heels

Images



Publication data including kind & date

[KR100909450](#)

B1 2009-07-28

KR100909450

[KR20090038987](#)

A 2009-04-22

KR20090038987



Abstract

(KR20090038987)

PURPOSE: A rising stature insole for shoes is provided, which maintains agreeable feeling by absorbing the impact generated while walking and ventilating the inner part of the shoe.

CONSTITUTION: A rising stature insole for shoes comprises: an outsole(16) in which the cloth(12) is adhered to the upper side by being formed in order to be extended to the rear part from the front part fitting for the heel portion in the plantar front

part of a wearer; and a backing support(20) combined with the bottom surface of the rear bottom of the bottom sole. The outsole and backing support are made of the foam(14) having ventilation. The foam is made of yellow soil, ethylene vinyl acetate, and rosin.

(C) KIPO 2009

Inventors

PARK, JUNGSIK

Latest standardized assignees - inventors removed

HAN SHIN TRANDING

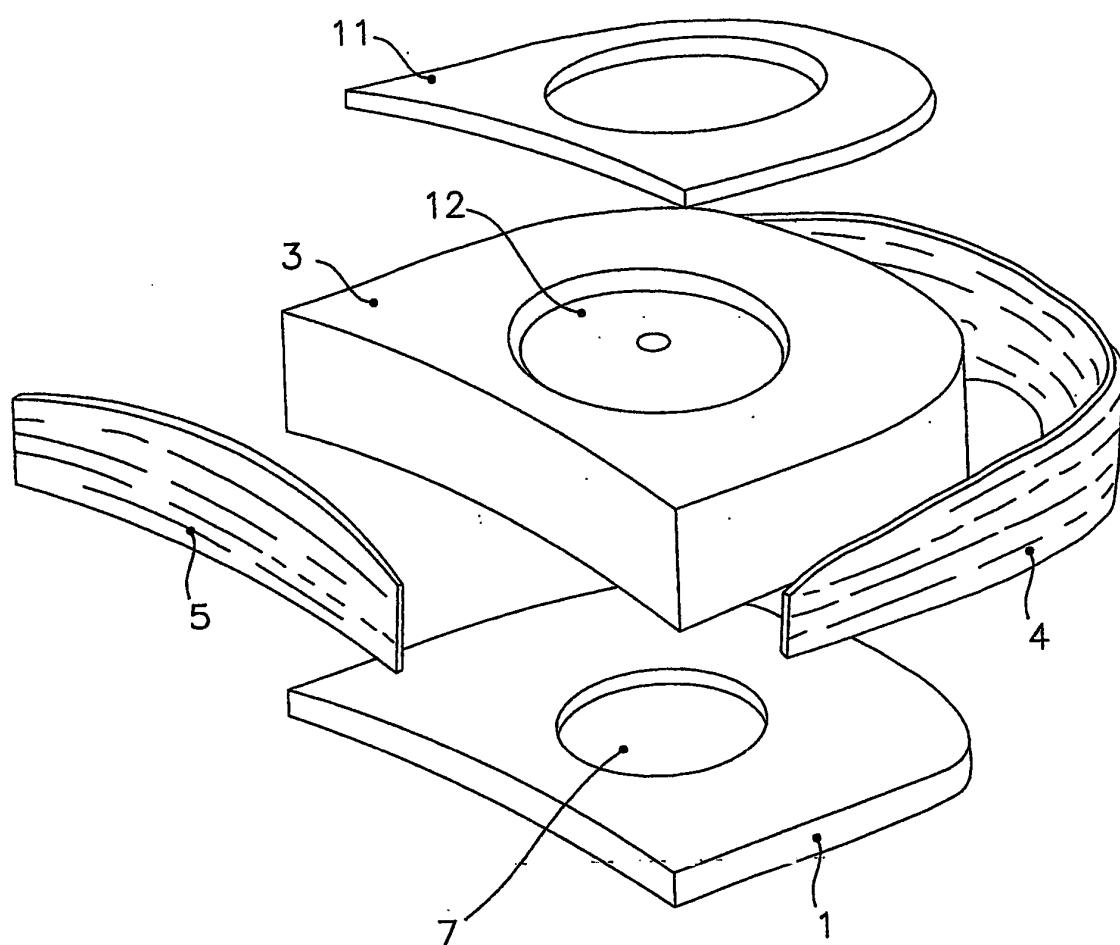
Family 429/432 - FAMPAT - ©Questel

Title

(EP1565084)

Method for the production of a shock absorbing heel for footwear and the heel produced thereby

Images



Publication data including kind & date

BRPI0311274	A2	2011-11-16	BR200311274
DE60323666	D1	2008-10-30	DE60323666
AU2003288530	B2	2008-10-16	AU2003288530
AT408352	T	2008-10-15	ATE408352
IN223840	B	2008-09-26	IN-223840
EP1565084	B1	2008-09-17	EP1565084
US20070256327	A1	2007-11-08	US20070256327
IN1702/KOLNP/2004	A	2006-07-28	IN2004KN01702
JP2006507870	A	2006-03-09	JP2006507870



CN1691902	A	2005-11-02	CN1691902				
KR20050084788	A	2005-08-29	KR20050084788				
EP1565084	A1	2005-08-24	EP1565084				
BR0311274	A	2005-02-22	BR200311274				
BRPI0311274	A1	2005-02-22	BRPI0311274				
MXPA04011304	A	2005-02-14	MX2004PA011304				
AU2003288530	A1	2004-06-18	AU2003288530				
WO2004/047580	A1	2004-06-10	WO200447580				
CA2485676	A1	2004-06-10	CA2485676				
ITFI20020230	A1	2004-05-28	IT2002FI0230				

Abstract

(EP1565084)

A shock absorbing heel for footwear, made of leather. or a material visually similar to leather, and formed by a rubber underheel (1) with at least one opening (7) from which there projects an appendix (2) of a core (3) made of a resilient plastic material. The material is injected on the underheel in a chamber (12) delimited by strips (4, 5) of leather or the like arranged on the underheel and along its edge and connected to the underheel through the core of plastic material.

Inventors

SUAREZ ADOLFO JAVIER

PUCCIONI ANTONIO

PEZZUOLO SIMONE

Latest standardized assignees - inventors removed

SALVATORE FERRAGAMO ITALIA

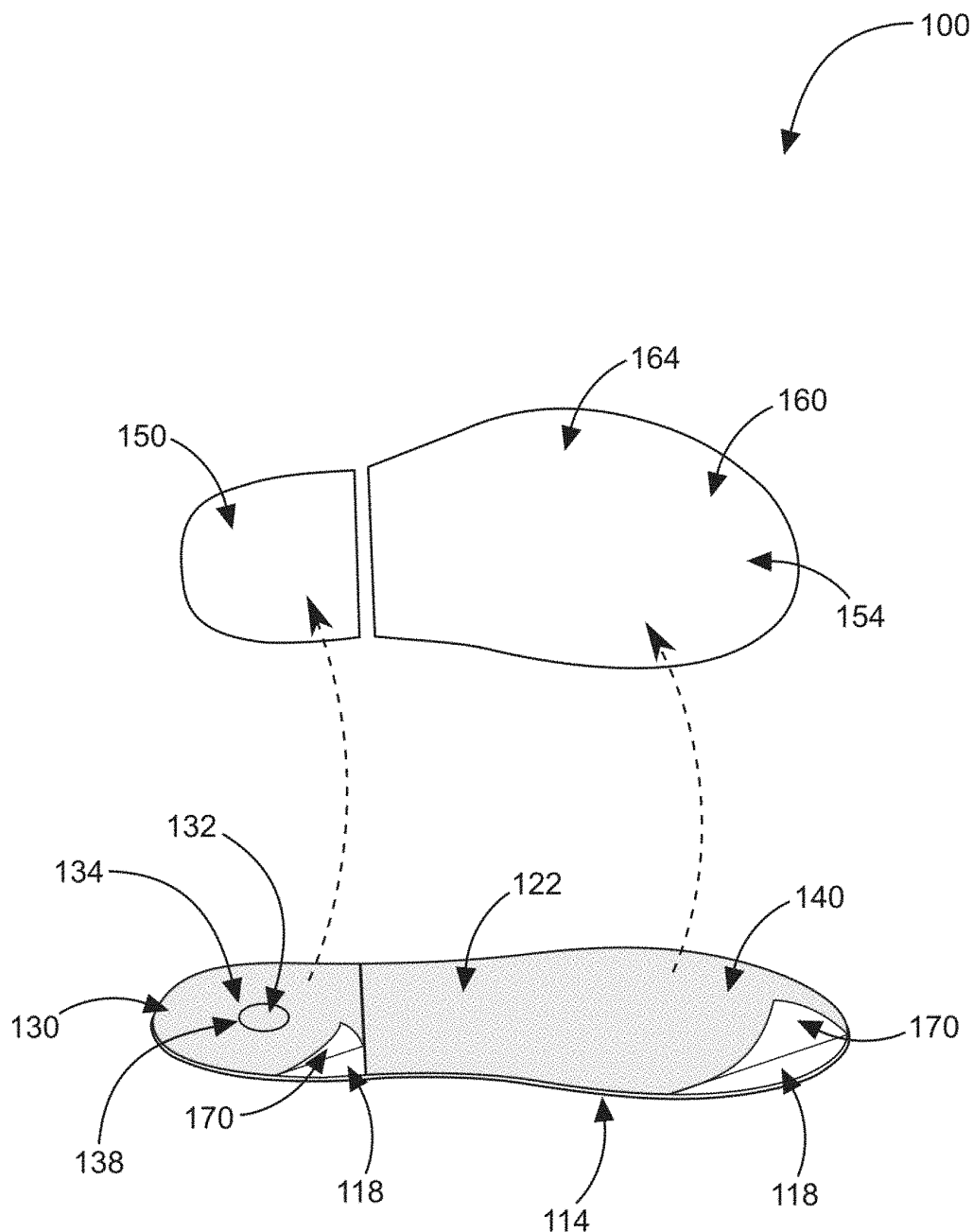
Family 430/432 - FAMPAT - ©Questel

Title

(US20170318909)

Disposable Covering Device

Images



Publication data including kind & date

US20170318909

A1 2017-11-09

US20170318909



Abstract

(US20170318909)

A disposable covering device is a one or two piece adhesive-backed, peel-and-stick plastic disposable cover for the soles of shoes, designed for temporary use in a variety of situations, to protect a user's shoes from dirt, grease and grime, germs and toxins, while also protecting floors and carpets from the same.

Inventors

GILBERT GLENDA

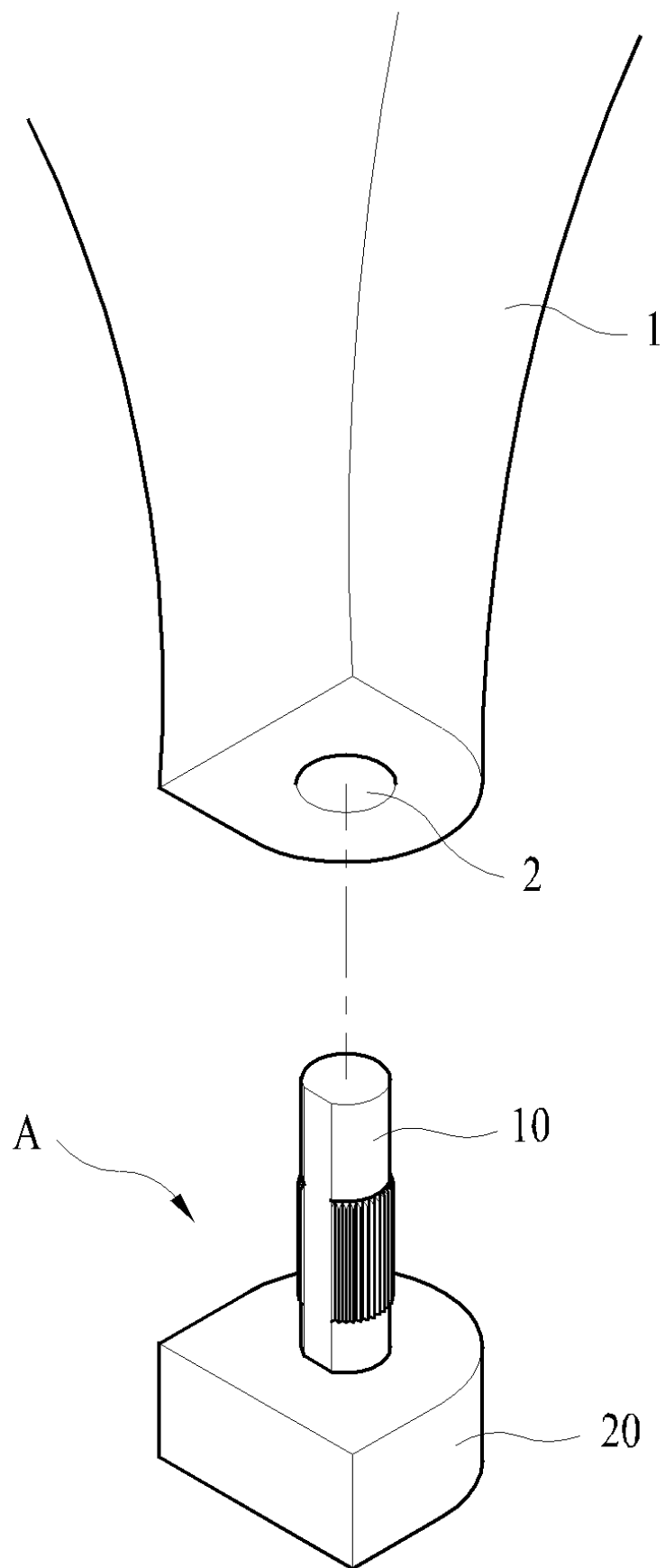
Family 431/432 - FAMPAT - ©Questel

Title

(KR20120077901)

The heels for rear hoof of high-heeled shoes

Images



Publication data including kind & date

[KR20120077901](#) A 2012-07-10 KR20120077901

**Abstract**

(KR20120077901)

PURPOSE: A heel for high-heeled shoes is provided to reduce fatigue due to walking and to prevent safety accidents caused by slip. CONSTITUTION: A heel for high-heeled shoes comprises a fixation pin(10), an elastic unit(20), and a hard unit. The fixation pin comprises a joint which is inserted into the fixation pin and fixed. The head of the fixation pin has narrow top and wide bottom. The elastic unit is injection-molded while protecting the hard unit. One side of the elastic unit is formed in a straight line and the other side thereof is formed in a semicircular shape.

Inventors

LEE, SEUNG-HO

Family 432/432 - FAMPAT - ©Questel

Title

(WO200797616)

Base for footwear and footwear provided with such a base

Publication data including kind & date

[WO2007/097616](#) A1 2007-08-30 WO200797616
[NL1031201](#) C1 2007-08-22 NL1031201

**Abstract**

(WO2007/097616)

Base (10) for footwear provided with a sole and a heel, whereby the sole comprises a counter part (11), a shank (12) part connected therewith, and a tip part (13) connected with the shank part, whereby the heel extends from the counter part to a tread and in which the base is constructed in that the length of the heel from the counter part to the tread is adjustable, characterized in that the heel is mainly shaped in the form of an L with a first (21) and a second (22) heel part, each at the end provided with a tread (23, 24), whereby the heel is movable from a first position in which the first heel part (21) extends transversally of the counter part and wherein the heel fixes the counter part and the shank part, enclosing a first angle, to a second position wherein the second heel part (22) extends transversally of the counter part and wherein the heel fixes the counter part and the shank part, enclosing a second angle.

Inventors

KREUWEL W H

DEN HOLLANDER MARTE JEANE

Latest standardized assignees - inventors removed

WOUTER HENK KREUWEL