

(12) STANDARD PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2004292802 B2**

(54) Title
Trousers with an adjustable waist

(51) International Patent Classification(s)
A41D 1/08 (2006.01) **A41D 15/00** (2006.01)
A41D 13/06 (2006.01) **A41F 9/02** (2006.01)

(21) Application No: **2004292802** (22) Date of Filing: **2004.11.23**

(87) WIPO No: **WO05/051111**

(30) Priority Data

(31) Number	(32) Date	(33) Country
0313720	2003.11.24	FR

(43) Publication Date: **2005.06.09**

(44) Accepted Journal Date: **2009.11.19**

(71) Applicant(s)
Thierry Maniguet

(72) Inventor(s)
Maniguet, Thierry

(74) Agent / Attorney
Watermark Patent & Trademark Attorneys, Level 2, 302 Burwood Road, Hawthorn, VIC, 3122

(56) Related Art
US 4183099
US 5575010

(12) DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITÉ DE COOPÉRATION
EN MATIÈRE DE BREVETS (PCT)

(19) Organisation Mondiale de la Propriété
Intellectuelle
Bureau international



(43) Date de la publication internationale
9 juin 2005 (09.06.2005)

PCT

(10) Numéro de publication internationale
WO 2005/051111 A1

(51) Classification internationale des brevets⁷ :
A41D 13/06, A41F 9/02, A41D 15/00, 1/08

(21) Numéro de la demande internationale :
PCT/FR2004/002987

(22) Date de dépôt international :
23 novembre 2004 (23.11.2004)

(25) Langue de dépôt : français

(26) Langue de publication : français

(30) Données relatives à la priorité :
0313720 24 novembre 2003 (24.11.2003) FR

(71) Déposant et

(72) Inventeur : MANIGUET, Thierry [FR/FR]; Le Bel
Avenir, F-71560 La Chapelle de Guinchay (FR).

(74) Mandataire : CABINET GERMAIN & MAUREAU;
B.P. 6153, F-69466 Lyon (FR).

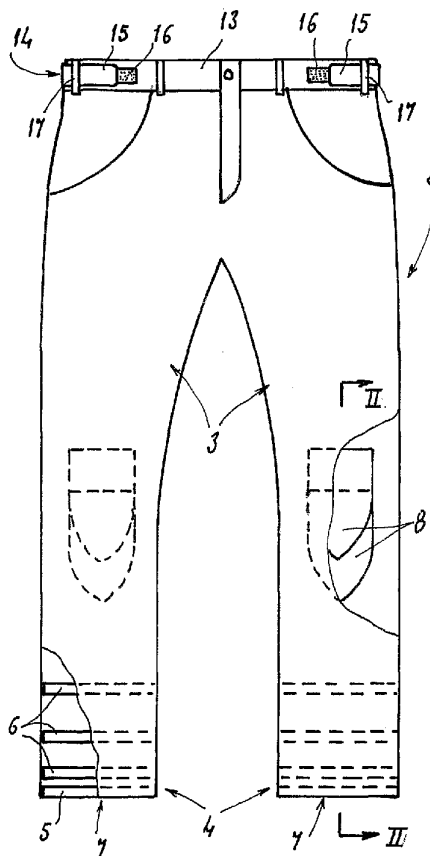
(81) États désignés (sauf indication contraire, pour tout titre de protection nationale disponible) : AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) États désignés (sauf indication contraire, pour tout titre de protection régionale disponible) : ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), eurasien (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Suite sur la page suivante]

(54) Title: TROUSERS WITH AN ADJUSTABLE WAIST

(54) Titre : PANTALON DE TAILLE RÉGLABLE



(57) Abstract: An adjustable pair of trousers (2) characterized in that said trousers comprise, at the extremity of each leg, a hook strip (5) of a first variety and at least two hook strips of a second variety which are set back from the extremity of each leg (3), wherein the extremity of each leg (3) can be folded back in order to form a hem (4), wherein said hook strip (5) of a first variety is affixed upon one of the hook strips (6) of the second variety; also characterized in that said trousers comprise at least two pockets (8) at different heights on each leg, wherein each pocket (8) enables a knee protection (10) to be accommodated therein.

(57) Abrégé : Pantalon (2) réglable caractérisé en ce qu'il comporte à l'extrémité de chaque jambe (3) une bande d'accrochage (5) d'un premier type ainsi qu'au moins deux bandes d'accrochage (6) d'un second type situées en retrait de l'extrémité de chaque jambe (3), l'extrémité de chaque jambe (3) étant repliable pour former un ourlet (4), la bande d'accrochage (5) du premier type venant se fixer sur l'une des bandes d'accrochage (6) du second type, et en ce qu'il comporte au moins deux poches (8) à deux hauteurs différentes sur chaque jambe (3), chaque poche (8) permettant de loger une protection de genou (10).

WO 2005/051111 A1



européen (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Publiée :

— avec rapport de recherche internationale

— avant l'expiration du délai prévu pour la modification des revendications, sera republiée si des modifications sont reçues

En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT.

Pants of adjustable size

The present invention relates to a pair of pants of adjustable size, designed in particular for
5 motorcycling.

As the morphology of motorcyclists may vary, it is necessary, for the same size of pants, to adapt the length of the legs for each wearer.

10

It is thus possible for a manufacturer to provide several leg lengths for the same size of pants. However, this solution is not satisfactory as it means that many models have to be stored at the
15 manufacturer's or retailer's premises.

Consequently, retailers often order pants in a single leg length and then hem them themselves or hire somebody to do so.

20

Motorcycle pants have a knee protector on each leg. However, the difference in morphology among motorcyclists means that it is not possible, a priori, to position these protectors in the right place for
25 each wearer.

Motorcycle pants are moreover designed to be worn on the outside, in conditions in which the wearing of a belt is not desirable from the user's viewpoint.

30 However, it is desirable to be able to adjust the pants at the waist.

It thus appears that the motorcycle pants known in the prior art are not adapted to the morphology of
35 motorcyclists, making them uncomfortable and preventing the protectors from being effective.

To solve this technical problem, the aim of the present invention is to provide a pair of pants of adjustable size, making it possible to adapt the pants to a morphology, without prior alteration, and to position
5 the protectors in the right place to ensure their effectiveness.

To this end, the present invention relates to a pair of adjustable pants characterized in that it comprises, at
10 the end of each leg, an attachment strip of a first type and at least two attachment strips of a second type set back from the end of each leg, in which the end of each leg can be folded back to form a hem, the attachment strip of the first type becoming fastened to
15 one of the attachment strips of the second type, and in that it comprises at least two pockets at two different heights on each leg, each pocket being capable of housing a knee protector.

20 This arrangement makes it possible to adapt, without sewing, the length of the legs to the morphology of the motorcyclist and to position the protectors in the right place on the knee.

25 Advantageously, the attachment strips are positioned substantially parallel to the end opening in the leg of the pants.

According to one advantageous feature, the attachment
30 strips are located on the inside face of each leg of the pants. Thus, the excess fabric of each leg is kept on the inside, thus not adversely affecting the appearance of the clothing.

35 Advantageously, at least one pocket is positioned on the inside of the leg of the pants.

According to one embodiment, at least one pocket has a reclosable opening.

Advantageously, the pants have a belt comprising, at both ends, two attachment strips of a first type designed to attach on to two attachment strips, respectively, of a second type located on the waist of the pants.

According to one embodiment, the pants comprise a loop extending across the whole of the back of the waist, to hold the belt.

Advantageously, the attachment strips of a first and second type are male and female textile attachment strips with hooks and loops, respectively, for example of the type known under the trademark Velcro.

The invention will be more clearly understood with the aid of the following description, with reference to the attached schematic drawing showing an embodiment of this pair of pants.

Figure 1 is a general view from the front.

Figure 2 is an enlarged partial sectional view along II-II in figure 1.

Figure 3 is an enlarged partial sectional view showing the adjustable hem.

Figures 1, 2 and 3 show a pair of pants 2 according to the invention. These pants 2 comprise two legs 3, each leg 3 having at its lower end an adjustable hem 4 comprising:

- a male attachment strip 5 located at the end of the leg 3,
- three female attachment strips 6 set back from the end of the leg 3,

these strips 5, 6 being positioned parallel to the end opening 7 in the leg 3.

The way in which this adjustable hem 4 works is shown in figure 3. The male attachment strip 5 is folded towards the inside of the end opening 7 in the leg and placed on top of one of the female attachment strips 6, to which it becomes fastened.

Thus the length of the leg 3 is reduced by a length corresponding to half the initial distance, before folding, between the male attachment strip 5 and the female attachment strip 6 to which the male attachment strip 6 is fastened.

The presence of three female attachment strips 6 allows the length of the leg to be adjusted by three different amounts, without sewing.

The male 5 and female 6 attachment strips are, in this embodiment, made of textile strips with hooks and loops, respectively, for example of the type known under the trademark Velcro.

At the knee, each leg 3 has two pockets 8 positioned at two different heights. Each of these pockets has a reclosable opening 9.

Each of these pockets 8 is capable of housing a knee protector 10, which can thus be housed at two different heights to protect the motorcyclist's knee by adapting to his morphology.

Each leg 3 has, in addition, a reinforced outer area 12, shown only in figure 2.

At the waist 13, the pants 2 have a belt 14 which is shorter than the circumference of the waist 13, this belt 14 comprising, at both ends 15, male attachment strips designed to interact with female attachment

strips 16 positioned laterally on the waist 13 of the pants 3.

5 In this embodiment, the male 15 and female 16 end attachment strips consist of textile strips with hooks and loops, respectively, for example of the type known under the trademark Velcro.

10 The waist 13 of the pants 2 has loops 17 to hold the belt 14, one of these loops 17 (not shown) extending across the whole of that part of the waist 13 which is designed to be positioned on the motorcyclist's back.

15 The invention is not limited to the embodiment described, but on the contrary encompasses all variants thereof. Thus, in particular, the number of female attachment strips 5 for the adjustable hem 4 may vary, thus varying the number of possible leg 3 lengths. Likewise, the number of pockets 8 for housing knee
20 protectors 10 may vary.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A pair of adjustable pants including, at the end of each leg, an attachment strip of a first type and at least two attachment strips of a second type located inwardly away from the end of each leg, in which the end of each leg can be
5 folded back to form a hem, the attachment strip of the first type becoming fastened to one of the attachment strips of the second type, and which includes at least two pockets at two different heights on each leg, each pocket being capable of housing a knee protector.
2. A pair of adjustable pants as claimed in claim 1, wherein the attachment
10 strips are positioned substantially parallel to the end opening in the leg of the pants.
3. A pair of adjustable pants as claimed in any one of claims 1 and 2, wherein the attachment strips are located on the inside face of each leg of the pants.
4. A pair of adjustable pants as claimed in any one of claims 1 to 3, wherein
15 at least one said pocket is positioned on the inside of the leg of the pants.
5. A pair of adjustable pants as claimed in any one of claims 1 to 4, wherein at least one said pocket has a reclosable opening.
6. A pair of adjustable pants as claimed in any one of claims 1 to 5, which
20 pants have a belt including, at both ends, two attachment strips of a first type designed to attach on to two attachment strips, respectively, of a second type located on the waist of the pants.
7. A pair of adjustable pants as claimed in claim 6, which pants include a loop extending across the whole of the back of the waist, to hold the belt.

8. A pair of adjustable pants as claimed in any one of claims 1 to 7, wherein the attachment strips of a first and second type are male and female textile attachment strips with hooks and loops, respectively, for example of the type known under the trademark Velcro.
- 5 9. A pair of adjustable pants substantially as hereinbefore described with respect to what is shown in the accompanying drawings.

THIERRY MANIGUET

WATERMARK PATENT & TRADE MARK ATTORNEYS

P27161AU00

