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(56) Documents Cited:  
**GB 2498579 A1 EP 0045169 A1**  
**DE 029603884 U1 DE 010228987 C1**  
**US 6098856 A US 4746044 A**  
**US 3698608 A US 20020179654 A1**

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(58) Field of Search:  
 INT CL A45F, A47D  
 Other: WPI, EPODOC, Internet

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(54) Title of the Invention: **Papa Pony. Shoulder Seat**  
 Abstract Title: **A device for use in carrying a child securely on adults shoulder**

(57) A device for use in carrying a child securely on adults shoulder comprising a seat (A1) for the child that is attached to a harness that is worn by the adult, the seat (A1) is positioned so that the legs of the child rest upon the shoulders of the adult (see figure 2). The seat section and the back (G, fig 1), shoulder and chest area (C, fig 1) of the harness is moulded as a single unit. Preferably the seat unit has a three point safety harness for securing the child and an adjustable telescopic headrest (A2). The chest area of the harness worn by the adult may have leg supports (G1b, G1c, fig 1), and the straps (D1, D2, fig1) of the harness may have thumb loops (E1, E2, E3, E4, fig 1) to allow the adult to support their arms. The harness for securing the carrying device to the adult may have a integral padded waist/hip belt.

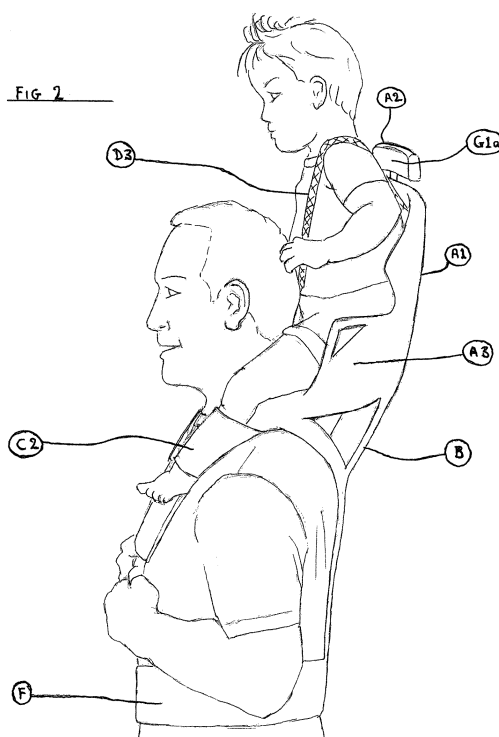


Fig 1

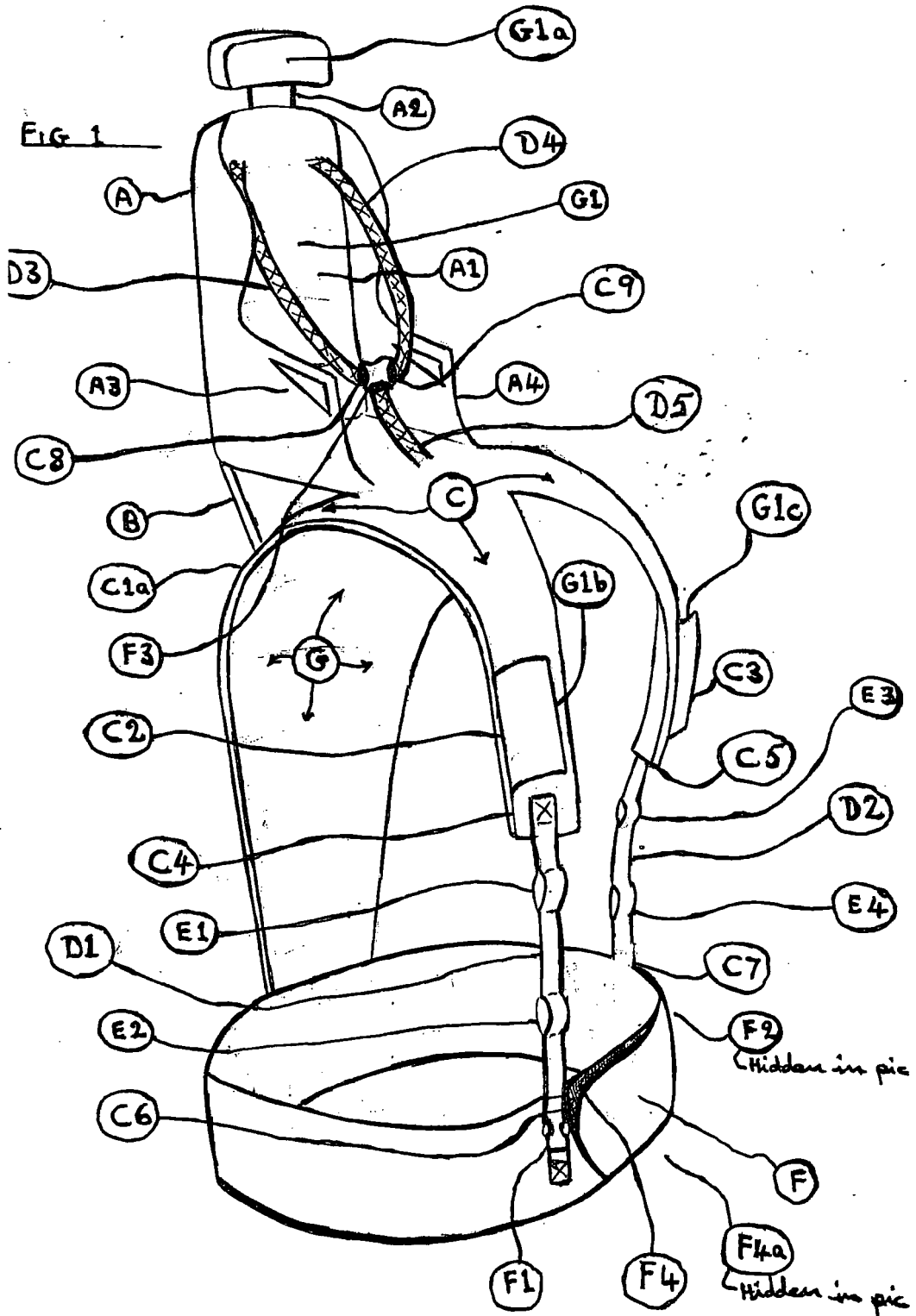


FIG 2

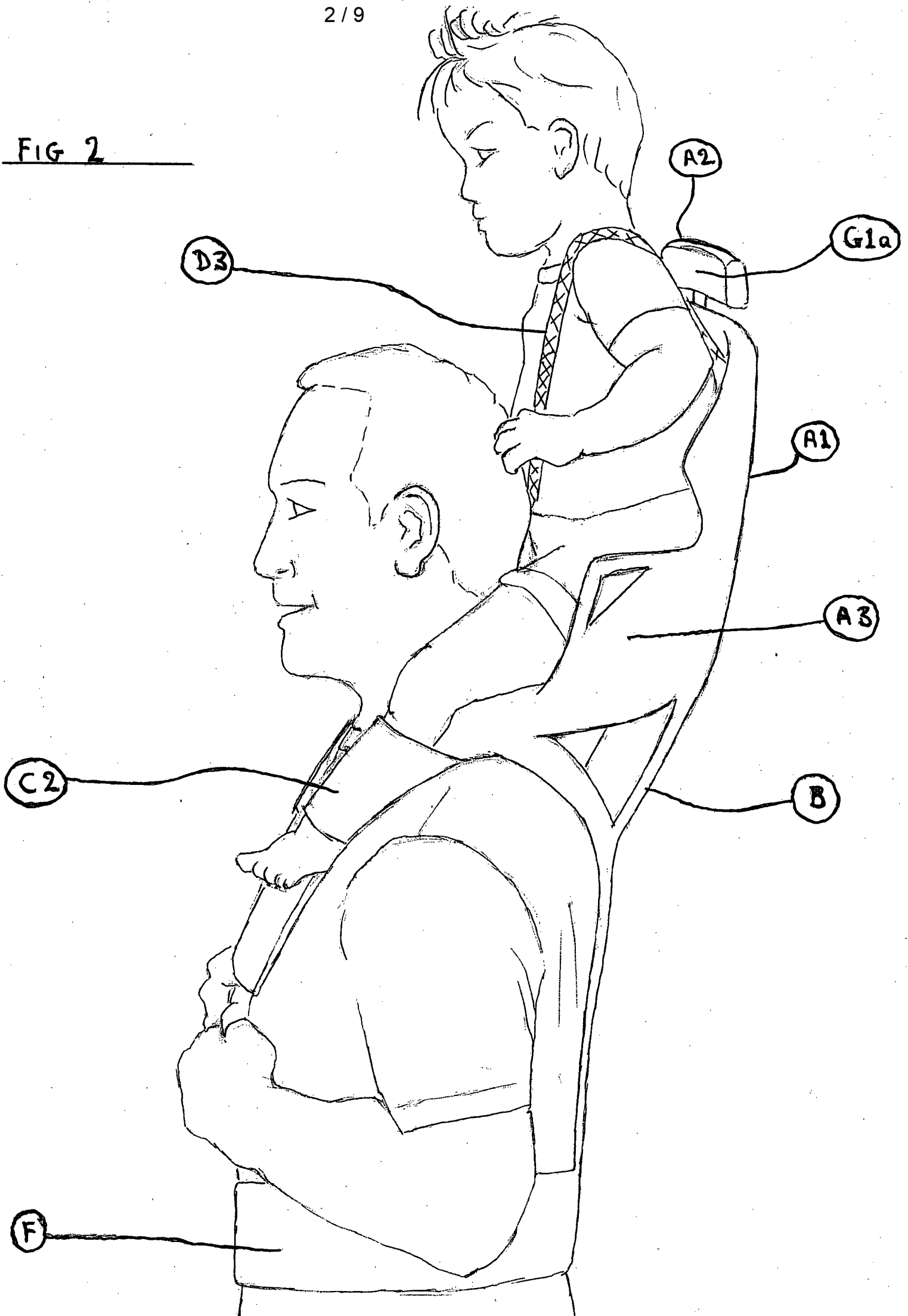


FIG 3

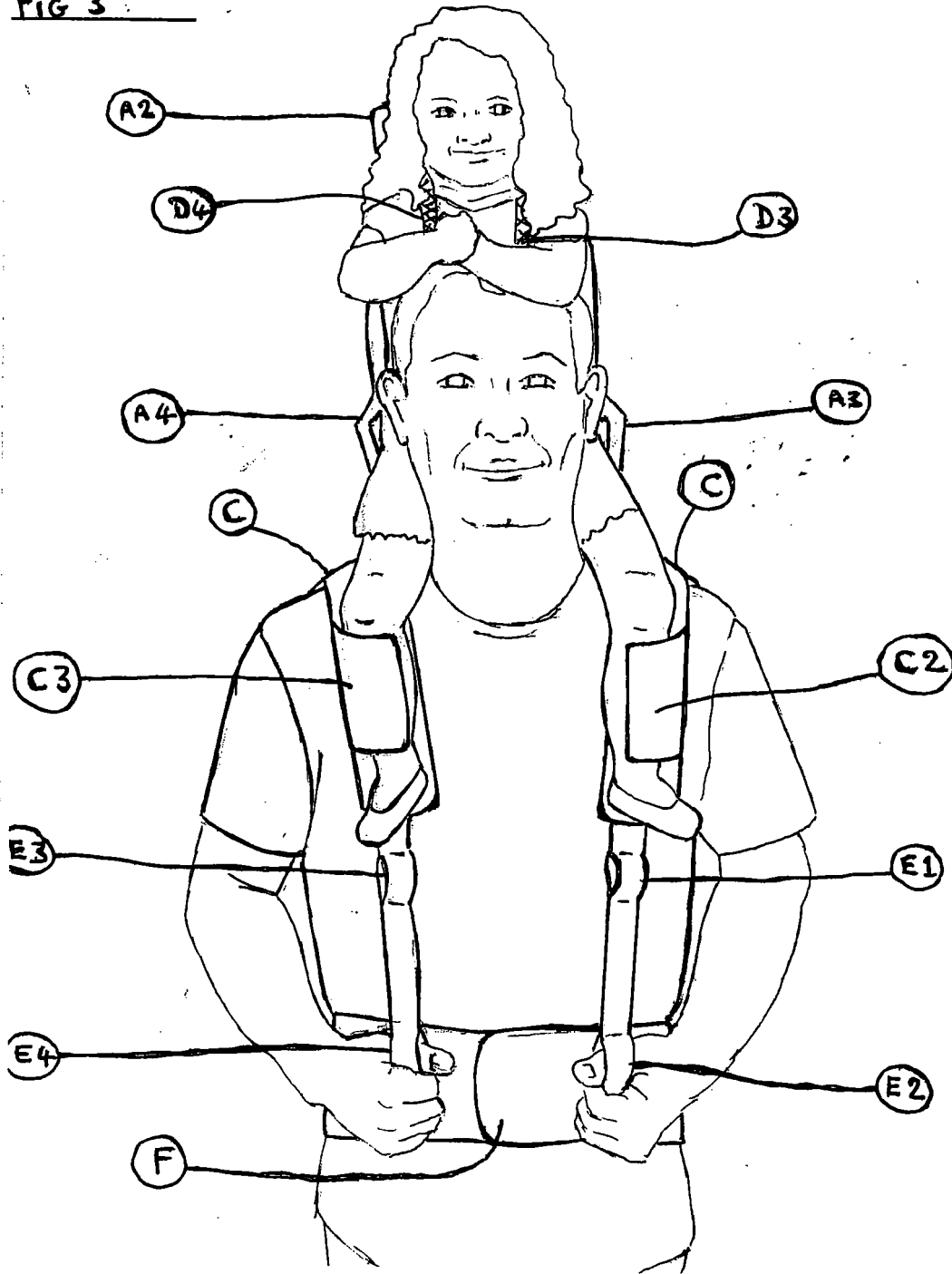


FIG 4

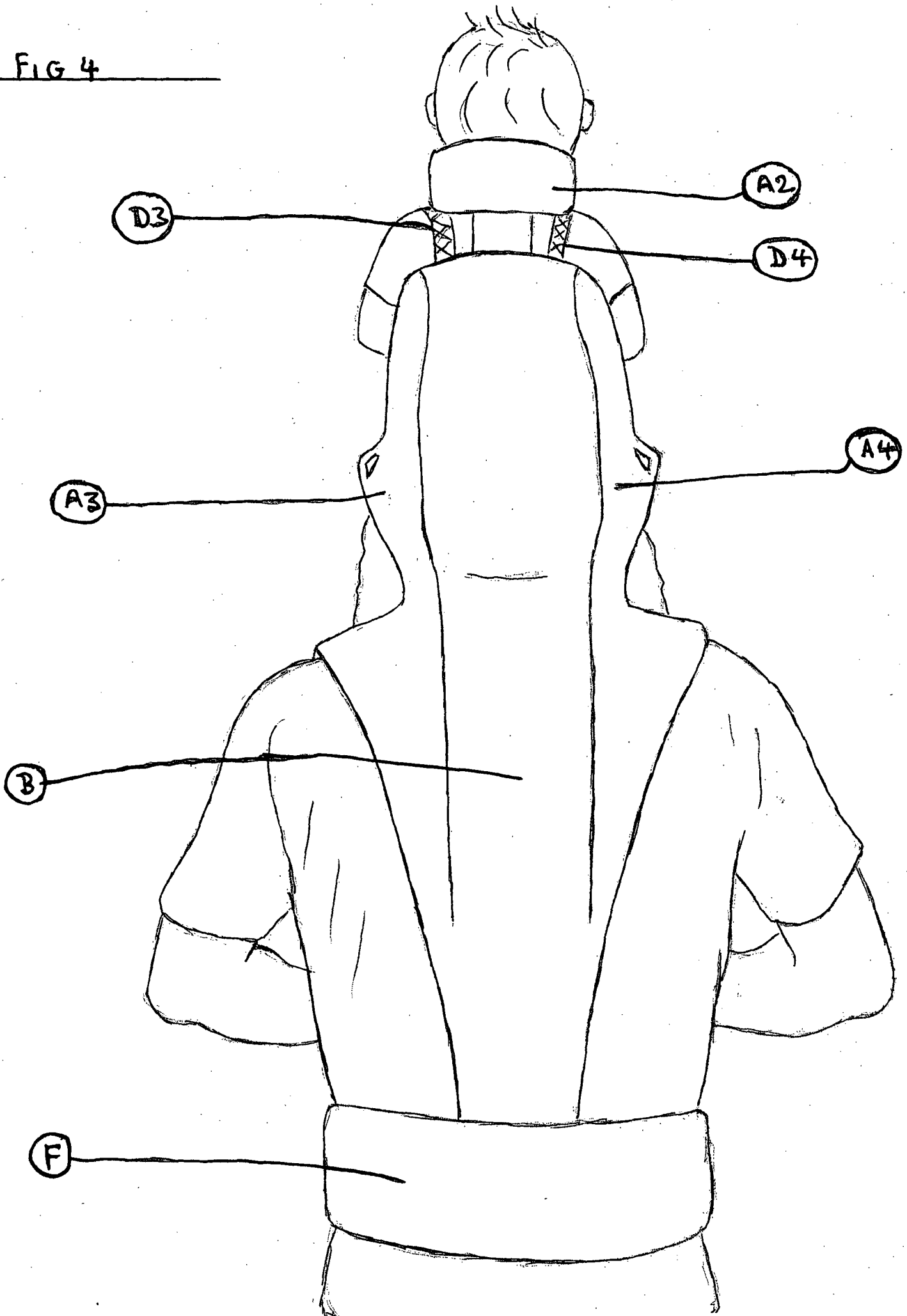


Fig 5

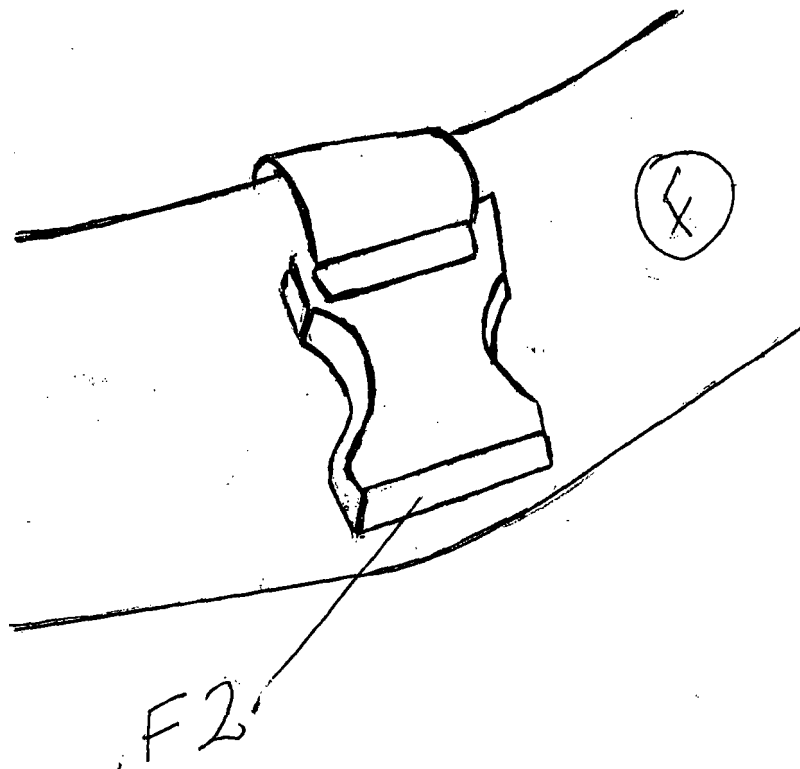
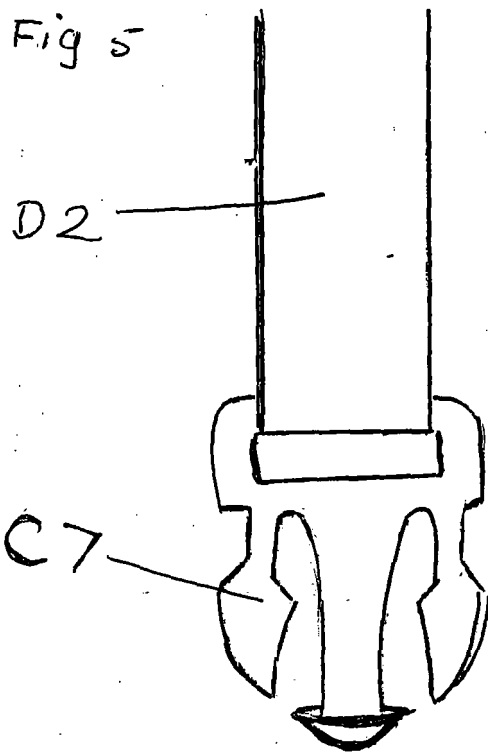
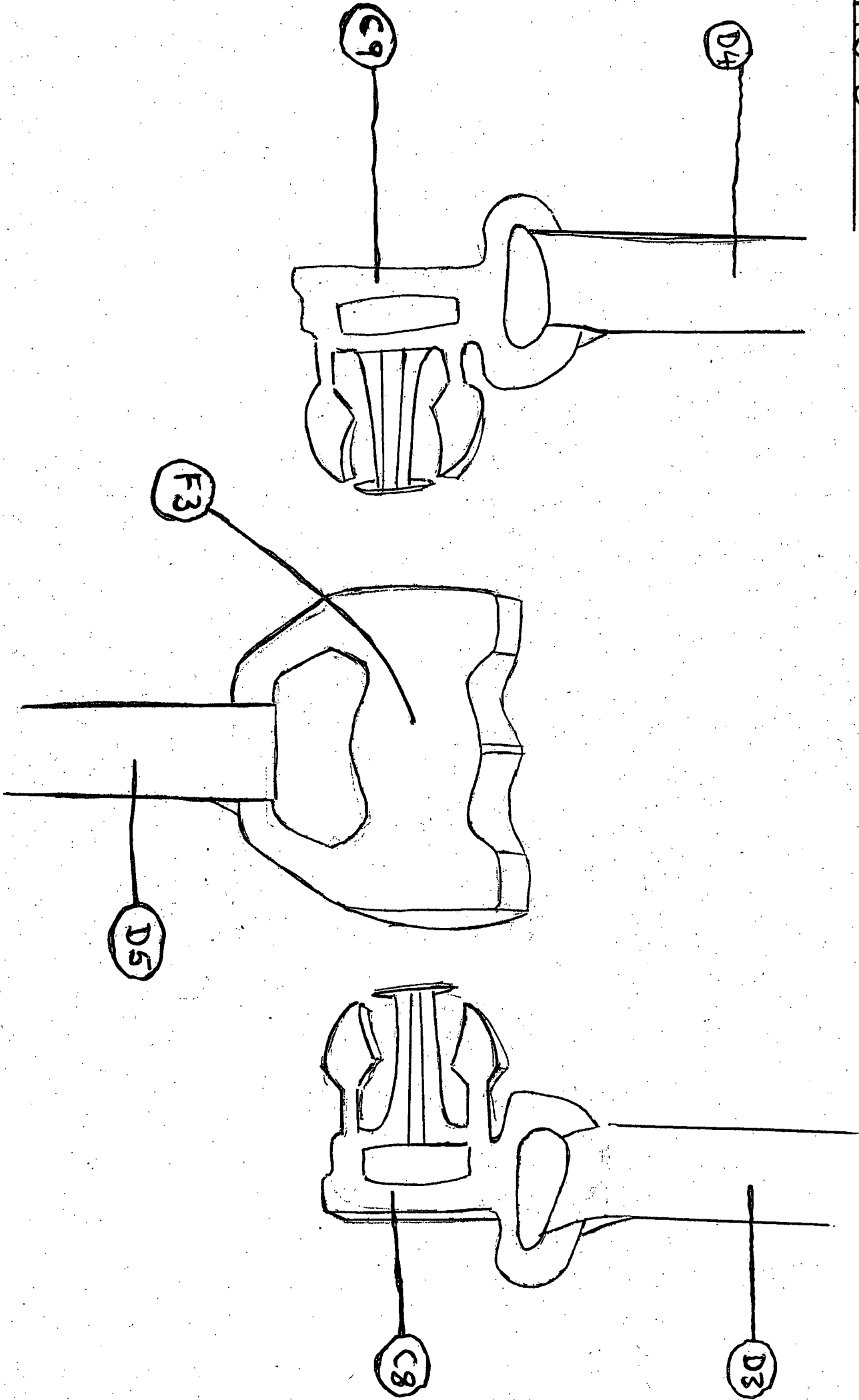


FIG 6



Tiger Z

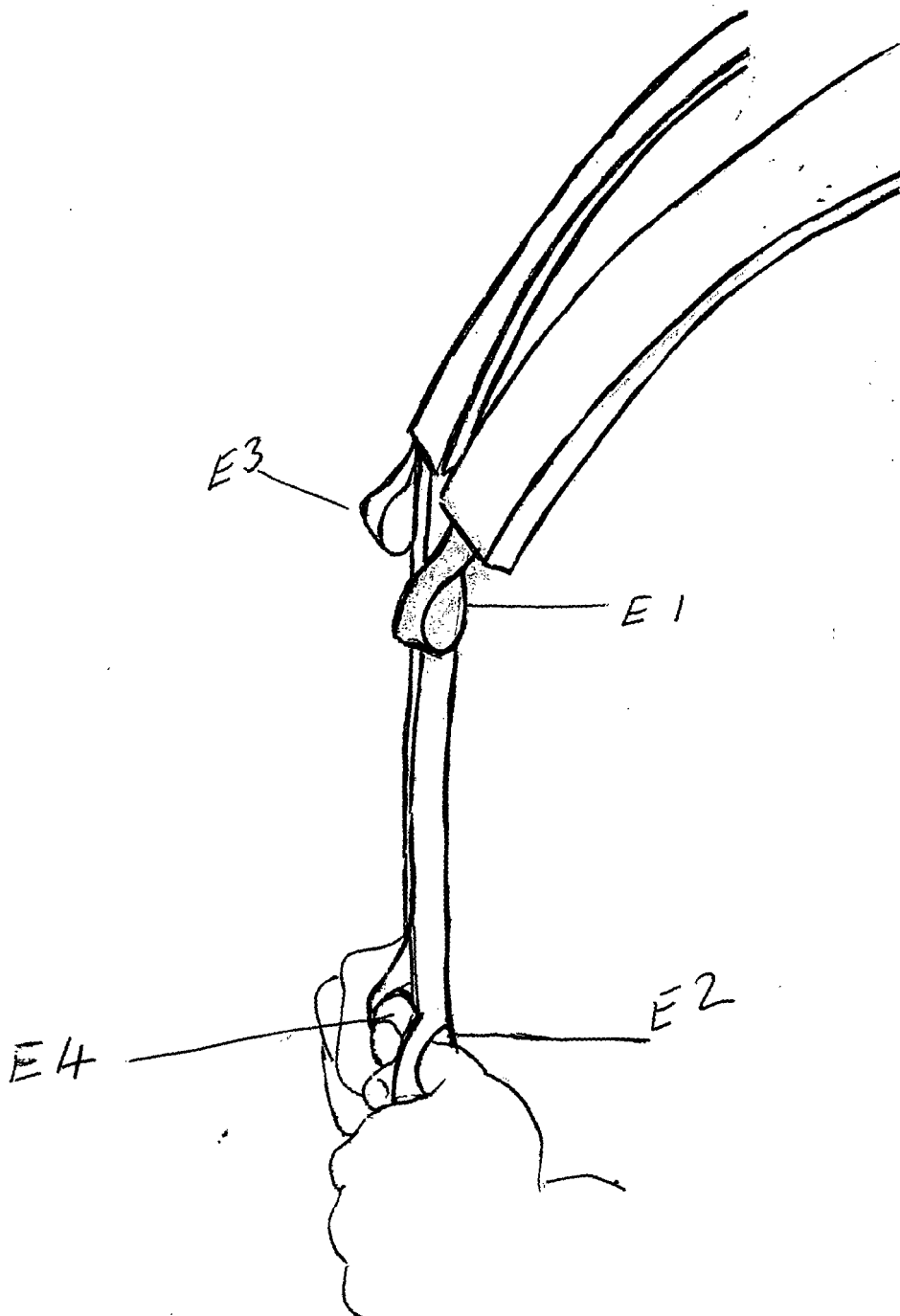
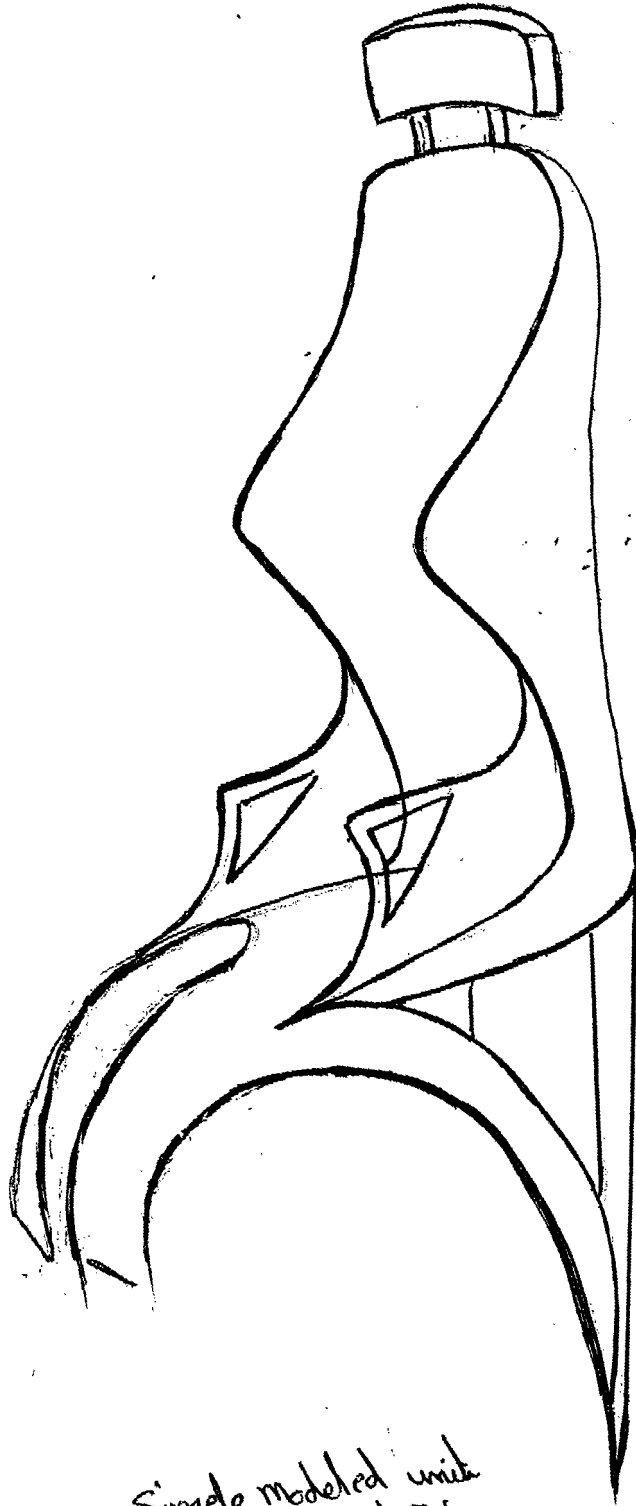




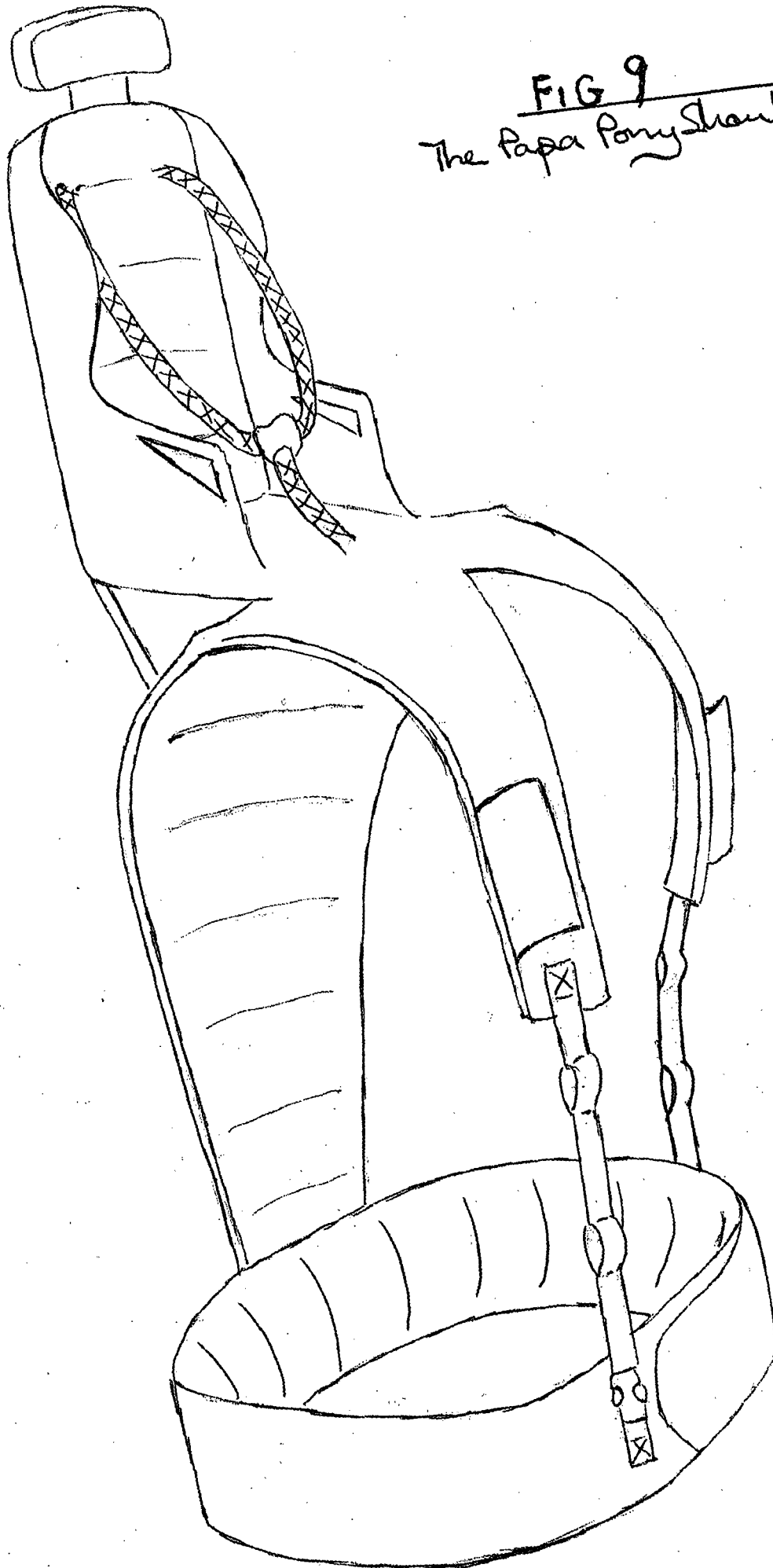
Fig 8



Single modeled unit  
with head test



FIG 9  
The Papa Pony Shoulder Seat.





The following terms are registered trade marks and should be read as such wherever they occur in this document:

Velcro

## Description

This invention relates to a device for carrying a child safely and comfortably on the shoulders of an adult.

## Background

Parents especially fathers have been carrying their children on their shoulders for thousands of years and this mode of transport for the 18 month old toddler up to a child of 4 or 5 years old has become a recipe for great fun, adventure, bonding, intimacy and trust building between parent or responsible adult and the child been carried.

## Reasons

There are countless reasons why a parent, a guardian or other responsible adult choose to hoist a child unto their shoulders and just as many reasons why children get excited at the prospect of riding on the shoulders of an adult. Among the reasons is the advantage of the child having a better view at some event or to keep a child safe and out of harm's way in a crowded situation or when the family is out walking and the child gets too tired to walk, to name but a few – the point is that carrying a child on the shoulders is a time-honoured practice.

## The Problem

Even though carrying a child on the shoulders is successfully and universally practiced by parents and adults there are a few drawbacks to its popularity e.g. the lack of any back or head support for the child and the fact that the only real security against the child falling backwards from the shoulders of the carrying adult is for the said adult to hold onto the legs of the child; the only other alternative to holding the child's legs is that the child been carried is forced into holding onto the head or neck of the person carrying him or her with all the accompanying feelings of insecurity and discomforts to both adult and child.

These are legitimate drawbacks, dangers and hindrances to carrying children on the shoulders safely and comfortably as the practice relates to health and safety.

## The Solution

The invention of a device for carrying a child safely and comfortably on the shoulders of an adult solves the above problem.

### Detailed Description

The main parts of the device are labelled: A, B, C and G.

See

FIG. 1

FIG.2

FIG. 3

FIG.4

Part (A) is an integrated seat unit moulded in the same lightweight material as the back, shoulder and chest parts of the body harness indicated as part (C) combined with moulded upper leg supports (C2) and (C3) to prevent the child's legs from falling away to the sides of the shoulders of the adult when carrying the child. Parts (C2) and (C3) are located and integrated just below the right and left shoulder section of part (C) the body harness.

Part (B) is an integrated moulded fulcrum rest located on the back and near the top section of part (C1a) between the shoulder blades of the person wearing the device for carrying a child safely and comfortably on the shoulders of an adult.

Part (A) is a moulded and integrated seat unit that sits on top of part (B) the integrated moulded fulcrum rest.

Parts (A1, A2, A3, A4, and parts D3, D4 and D5, are seven integral design features in-built to the seat unit (A) the last three parts making up the three point safety harness) that make the device for carrying a child safely and comfortably on the shoulders of an adult a practical, "safe and comfortable" proposition.

(A1 and A2) Is the back and adjustable telescopic head-rest section of the moulded and integrated seat unit designed to prevent the child from falling backwards off the shoulders of the adult and to support the neck or head of the child depending on the size of the child,

(A1) is the padded back rest.

(A2) is the adjustable telescopic head rest.

(A3) and (A4) are the two left and right side walls of the moulded and integrated seat unit (A) designed in the form of a bucket seat to prevent the child from sliding or falling side-ways from the shoulders of the adult and the two side walls (A3) and (A4) of the seat (A) also double as convenient arm-rest's for the child.

Part (D3) is the left nylon shoulder strap ending with a male clip (C8) and part (D4) is the right nylon shoulder strap ending with a male clip (C9) and part (D5) is the centre nylon

strap ending with a double female clip (F3) located between the legs of the child, in the base of the seat unit (A)

All the parts A, B and C are moulded together to become one single integrated unit which forms the upper and outward frame and structure of the device for carrying a child safely and comfortably on the shoulders of an adult.

Parts (D1 and D2) consists of two nylon straps which are welded to, or integrated to the bottom parts of (C4 and C5) and which end in two male clips (C6 and C7) which fall beneath the chest and extend down where they attach to two female clips (F1 and F2) located on the front of part (F) the integrated padded waist/ hip belt.

There are two thumb loops on each of the nylon straps (D1 and D2), one high thumb loop (E1) located near the top of the left nylon strap (D1) and one low thumb loop (E2) located near the bottom of the left nylon strap (D1) two other thumb loops are located on nylon strap (D2), the high thumb loop (E3) is located near the top of the nylon strap (D2) and the low thumb loop (E4) is located near the bottom of the nylon strap (D2).

The four thumb loops are part of the design of the device for carrying a child safely and comfortably on the shoulders of an adult and the four thumb loops allow the adult who is wearing the device to hook the left thumb into the high (E1) or low (E2) thumb loop located on the left nylon strap (D1) and the four thumb loops allow the adult who is wearing the device to hook the right thumb into the high (E3) or the low (E4) thumb loop located on the right nylon strap (D2) so that the person wearing the device for carrying a child safely and comfortably on their shoulders may if they choose, support their arms by holding onto the device using the left and right high (E1 and E3) thumb loops to comfortably suspend their arms from their left and right thumbs at chest height or if the person wearing the device chooses to hold onto the device at the lower waist height, suspending their arms comfortably from the left and right thumbs using the lower left and right loops (E2 and E4).

Hooking the left or right thumbs into any of the four thumb loops (E1, E2, E3, or E4) is optional when wearing the device for carrying a child safely and comfortably on the shoulders of an adult and the hooking of the thumbs in one or more of the loops is not a requirement for the stability or otherwise of the device but is optional for the added comfort of the person wearing the device.

If the person wearing the device chooses to, he or she may ignore the four thumb loops altogether leaving their arms to swing freely when wearing the device.

Part (F) is an integrated wide padded waist/hip belt welded to part (C1b) which is located at the bottom end (lumbar region) of the rear part of the body harness (C) running down the spine of the person wearing the device. Part (F) consists of a flexible, strong, lightweight and comfortable belt designed to be a stabilizing and anchoring point around the waist/hips of

the person wearing the device for carrying a child safely and comfortably on the shoulders of an adult.

The construction material for the wide padded belt (F) can be fabricated using neoprene rubber with an extended Velcro pad fastening for easy, adjustable and secure fitting.

Parts (F1) and (F2) are two female clips located on the front of part (F) that secure parts (D1) and (D2) the two nylon straps via the two male clips (C6 and C7) with the four thumb loops (E1, E2, E3, and E4) being located on the two nylon straps (D1 and D2) that attach to part (F) the wide padded waist/ hip belt.

Part (F1) is a female clip located on the front left side of part (F) and which receives male clip (C6) located on the bottom end of part (D1)

Part (F2) is a female clip located on the front right side of part (F) and which receives male clip (C7) located on the bottom end of part (D2)

Part (F3) is the double female clip at the end of part (D5) located between the legs of the child in the padded base of the seat unit (A)

Part (F4) is the extended Velcro fastening pad located on the front face of the wide padded belt part (F)

Part (F4a) is the extended Velcro fastening pad located on the inner face of the wide padded belt part (F)

Part (G) is the complete inner padding for the body harness (C) or the device for carrying a child safely and comfortably on the shoulders of an adult.

Part (G1) is the complete seat padding for the moulded integrated seat unit (A).

Part (G1a) is the padding for the telescopic head-rest located at the top of (A) the moulded integrated seat unit.

Part (G1b) is the comfort padding inside the left upper leg support (C2) located on the front upper chest part of the main body harness (C)

Part (G1c) is the comfort padding inside the right upper leg support (C3) located on the front upper chest part of the main body harness (C)

**(G1) Is the complete seat padding for the moulded integrated seat unit (A)**

**(G1a) Is the padding for the telescopic head-rest located at the top of (A) the moulded integrated seat unit**

**(G1b) Is the comfort padding inside the left upper leg support (C2) located on the front upper chest part of the main body harness (C)**

**(G1c) Is the comfort padding inside the right upper leg support (C3) located on the front upper chest part of the main body harness (C)**



### Claims

1. A device for carrying a child safely and comfortably on the shoulders of an adult consisting of a single unit moulded body harness with moulded and other integrated parts.
2. A device for carrying a child safely and comfortably on the shoulders of an adult according to claim 1, in which the device consists of a single unit body harness with moulded integrated seat and telescopic, adjustable head rest and moulded, integrated fulcrum rest for said integrated seat.
3. A device for carrying a child safely and comfortably on the shoulders of an adult according to claim 2, the child seat also consisting of a three point safety harness.
4. A device for carrying a child safely and comfortably on the shoulders of an adult according to claim 1, consisting of a single unit body harness with integrated, adjustable, padded waist/hip belt.
5. A device for carrying a child safely and comfortably on the shoulders of an adult according to claim 3, whereby the single unit body harness is also equipped with two nylon straps extended from its upper frontal part down to its padded, waist/hip belt and the said straps consisting of four thumb loops.
6. A device for carrying a child safely and comfortably on the shoulders of an adult according to the preceding claims 1, 2, 3, 4 and 5 that is a novel, modern and of lightweight design.



**Application No:** GB1315370.5

**Examiner:** Sally Vaughan

**Claims searched:** 1 - 6

**Date of search:** 31 March 2014

**Patents Act 1977: Search Report under Section 17**

**Documents considered to be relevant:**

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1 at least	US3698608 A (ENTWISTLE) see whole document
X	1 at least	EP0045169 A1 (BUSH) see whole document
X	1 at least	US2002/0179654 A1 (PRIPPS et al) see whole document
X	1 at least	DE29603884 U1 (PETZENHAMMER) see English Abstract
X	1 at least	GB2498579 A1 (CROWN) see whole document
X	1 at least	US4746044 A (ARVIZU et al) see whole document
X	1 at least	US6098856 A (REILLY) see whole document
A	-	DE10228987 C1 (VAUDE SPORT GMBH & CO) see English abstract, and computer translation

**Categories:**

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

**Field of Search:**

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>X</sup> :

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Worldwide search of patent documents classified in the following areas of the IPC

A45F; A47D

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC, Internet

**International Classification:**

<b>Subclass</b>	<b>Subgroup</b>	<b>Valid From</b>
A47D	0013/02	01/01/2006
A45F	0003/14	01/01/2006