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(51) INT CL:  
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(52) UK CL (Edition X ):  
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**A4K KBC KDA**  
**U1S S1237**

(56) Documents Cited:  
**EP 0744139 A1** **DE 202004011032 U1**

(58) Field of Search:  
INT CL **A46B, A47L**  
Other: **WPI, EPODOC**

(54) Abstract Title: **Electric shoe brush and polisher kit**

(57) This invention relates to an electric shoe brush and polisher kit 1 in which a switch 3 activates the electrical motor 2 to move a removable brush 4 either forwards and backwards or in a spinning motion. Rechargeable batteries 6 can operate the unit in some cases, or a power lead can be used for continuous power supply with lights 8 indicating the level of the battery. Holes 10 and teeth 14 (figure 3) which are integrated in the spinning part 4 aid the mounting of interchangeable brushes.

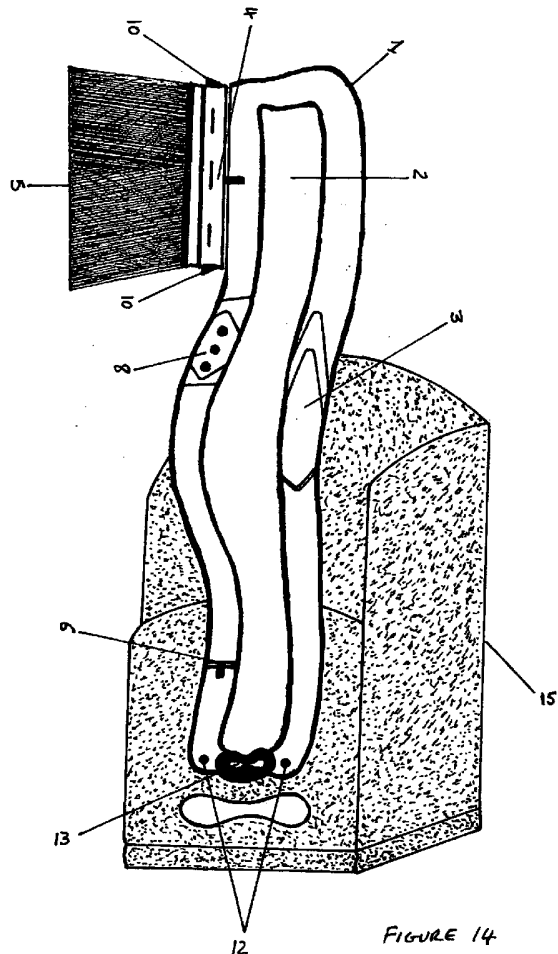


FIGURE 14

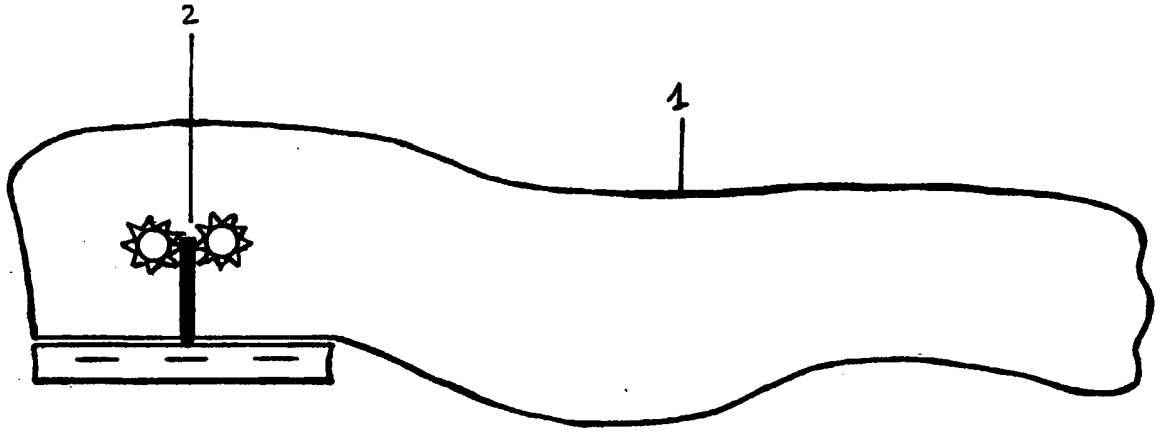


FIGURE 1

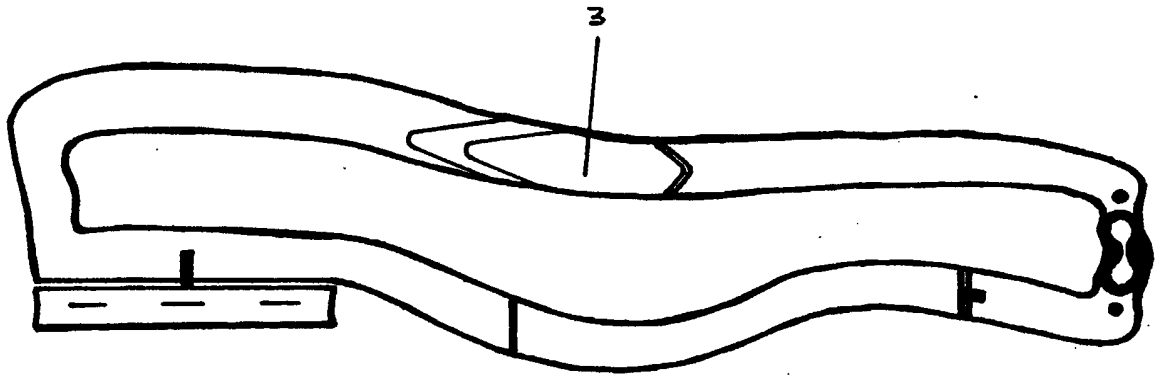


FIGURE 2

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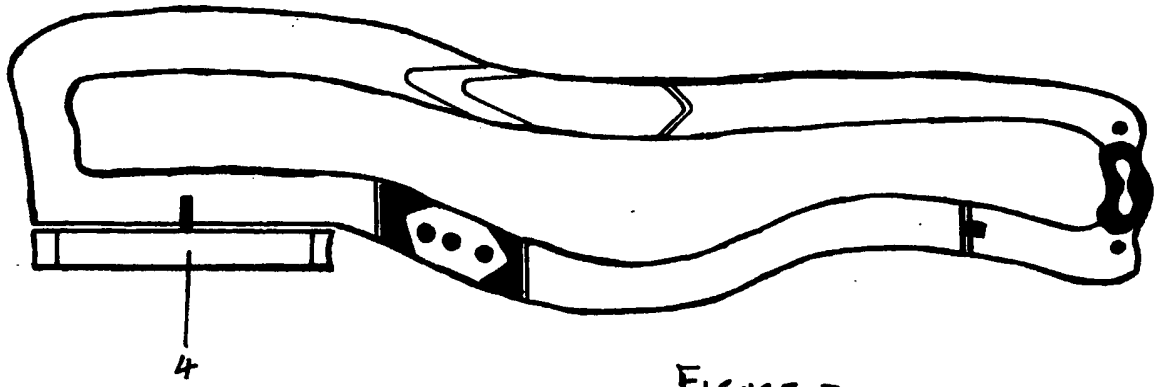


FIGURE 3

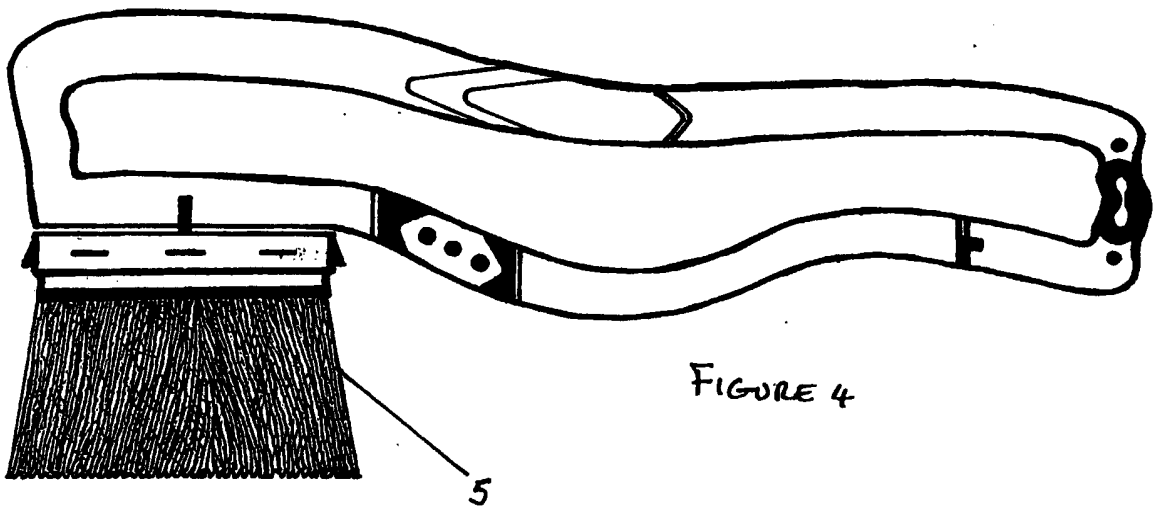


FIGURE 4

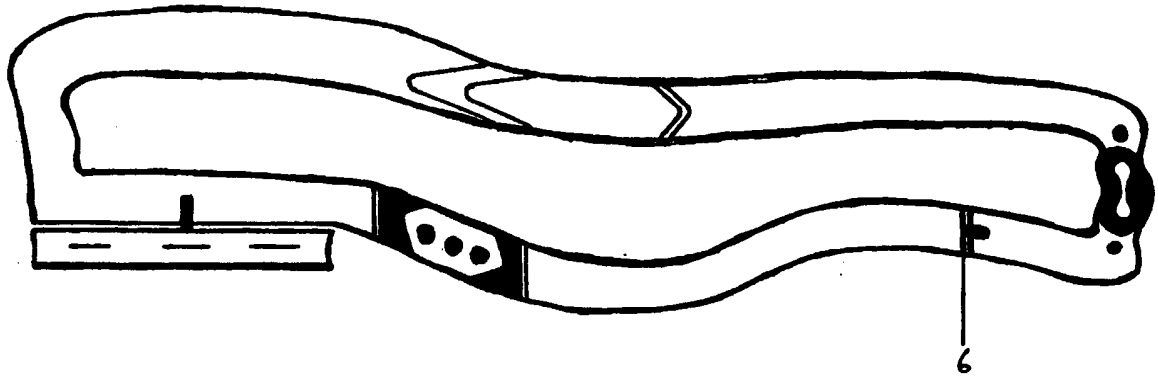


FIGURE 5

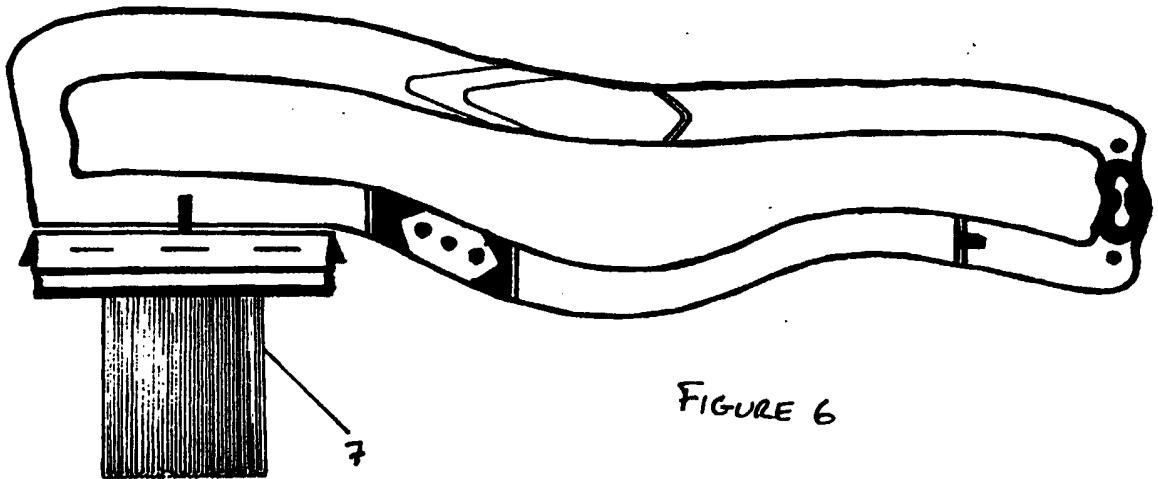


FIGURE 6

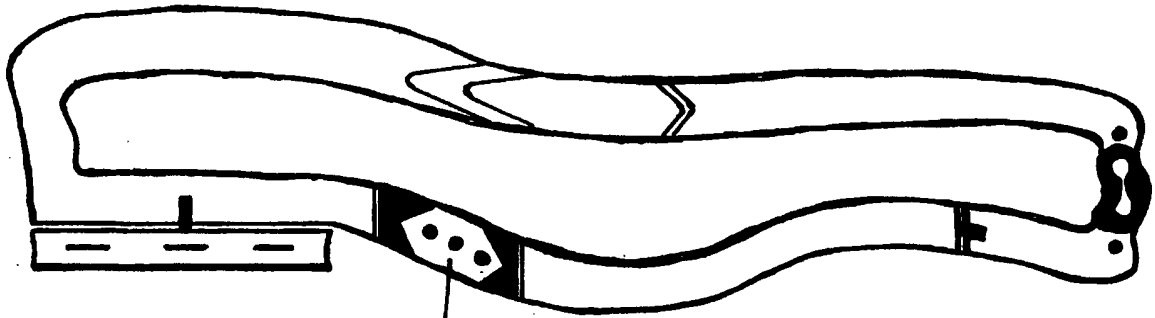


FIGURE 7

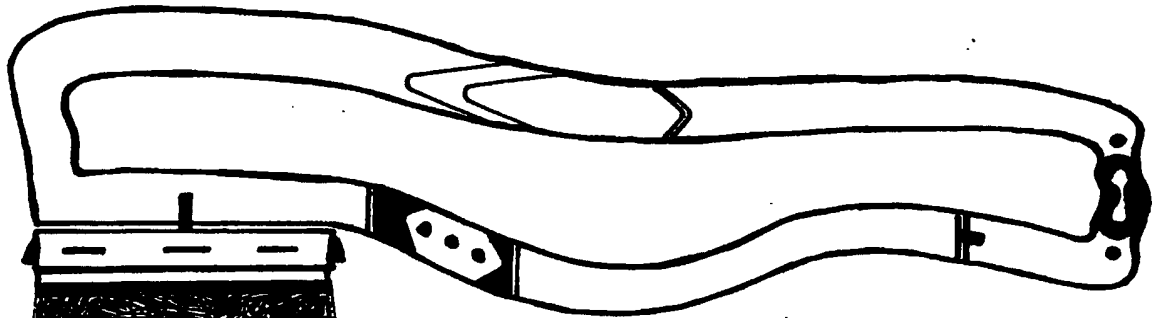


FIGURE 8

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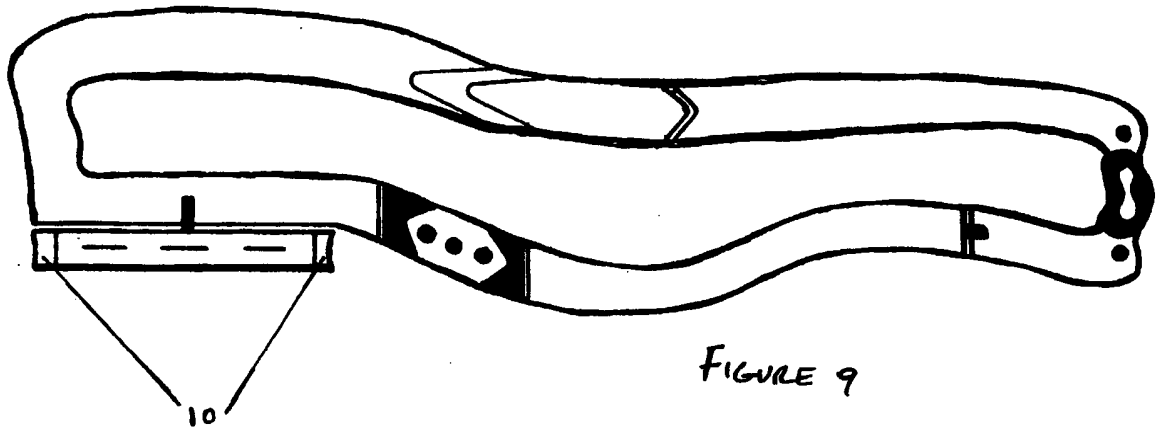


FIGURE 9

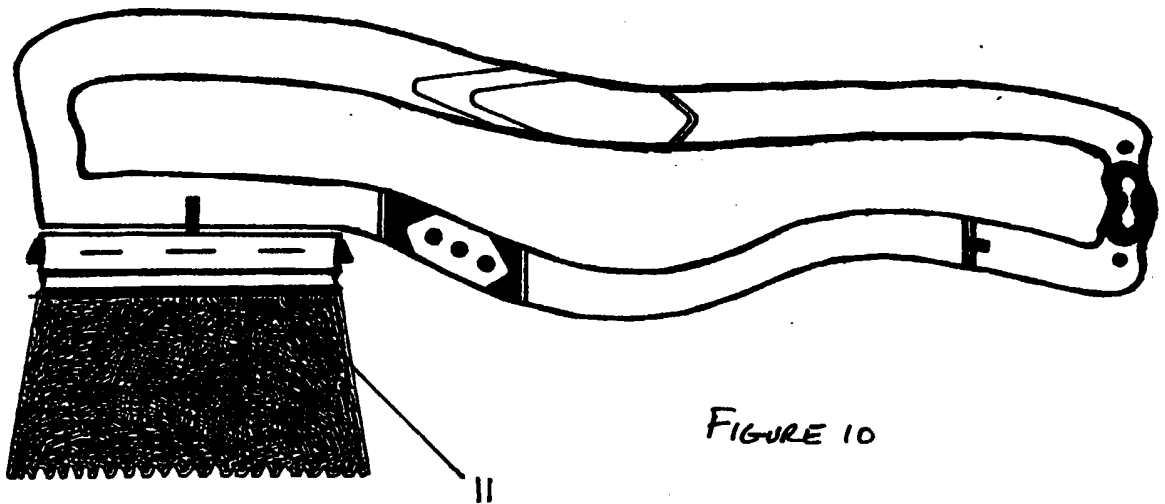


FIGURE 10

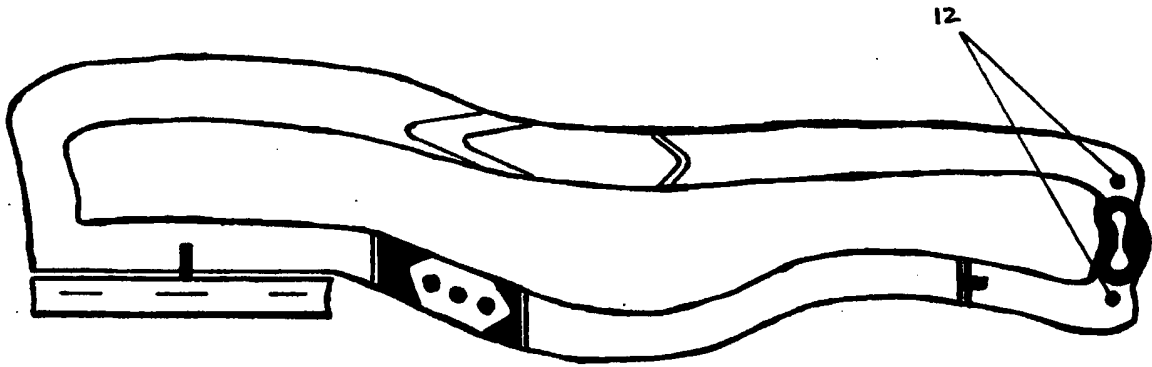


FIGURE 11

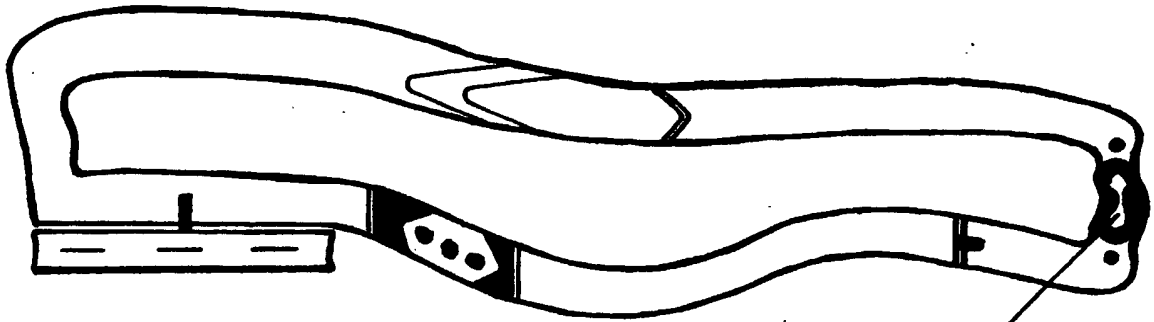


FIGURE 12

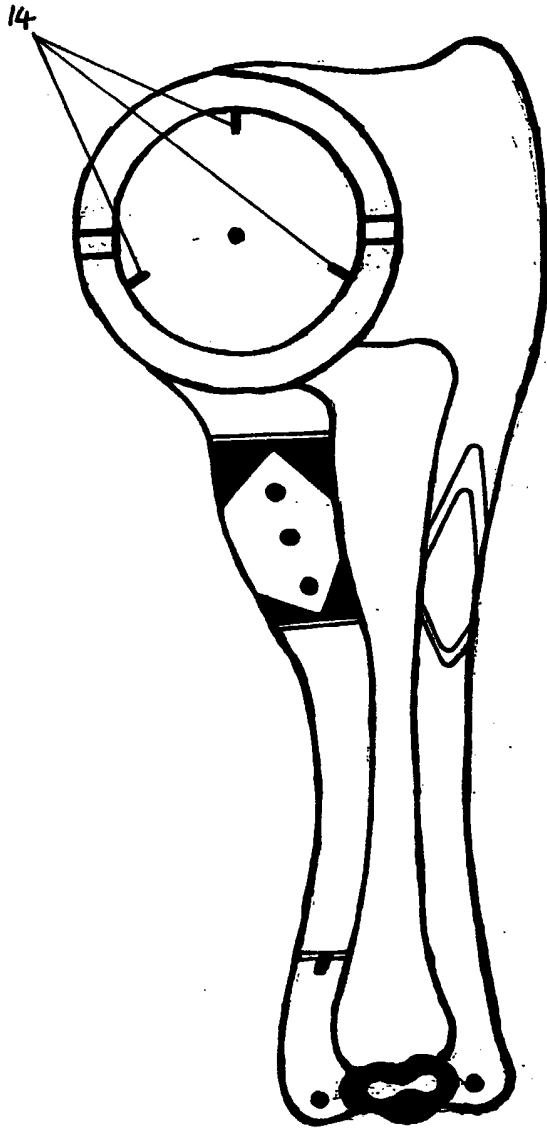


FIGURE 13



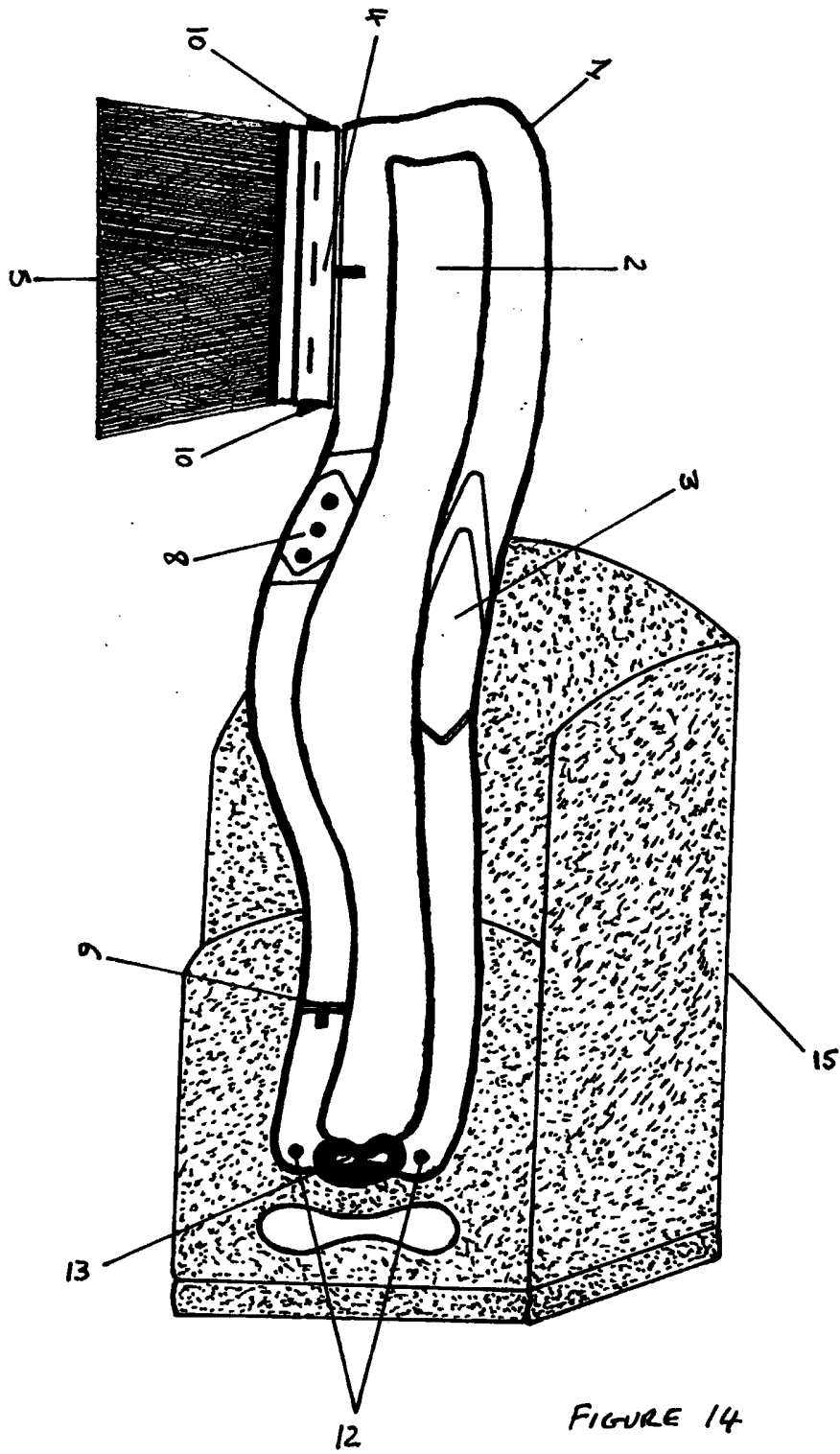


FIGURE 14

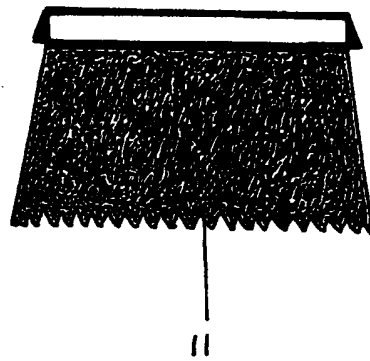
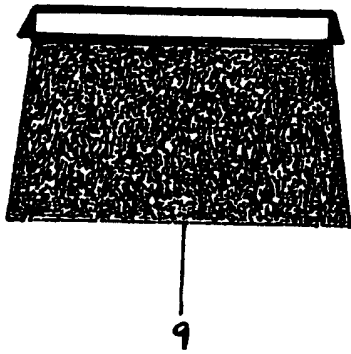
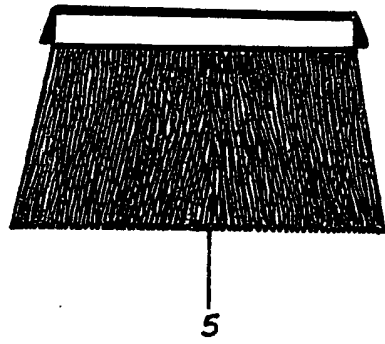
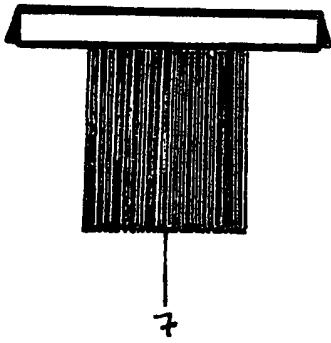


FIGURE 15

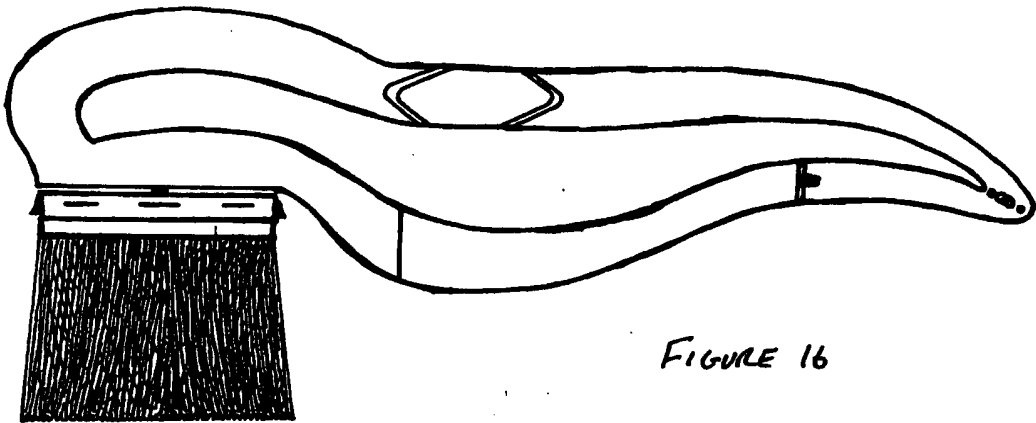


FIGURE 16

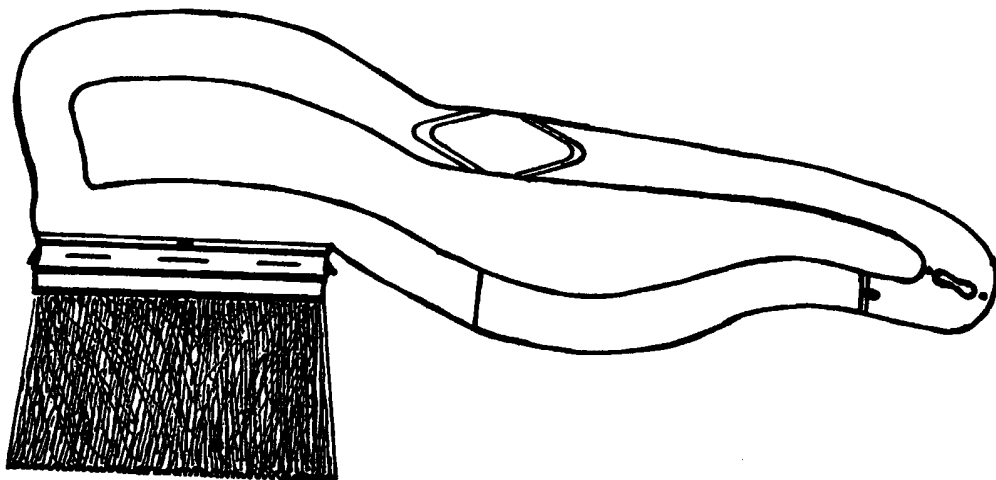


FIGURE 16

**Electric shoe brush and polisher kit**

This invention relates to a new tool and method of brushing, polishing and shining shoes.

Shoes brushing can be physically demanding and most of the time a considerable amount of people doesn't bother to brush their shoes because of the energy and the amount of time they will spend in the process and will end up wiping their shoes more often with a piece of cloth instead of brushing, polishing and shining them with a proper shoe brush and shoe cream.

To overcome these problems, the present invention proposes an electric shoe brush and polisher kit, which brush, polish and shine shoes with a rounded brush made of horse hair or other material and mounted on a plastic base material holder, and a sponge or cotton based material mounted in a plastic base for polishing and shining. The electric shoe brush and polisher fitted with a rechargeable battery and lights to indicate the level of the said battery is power by conventional electrical energy and operated by a little electrical motor which provide two speeds and two different functions. A switch mounted in the electric shoe brush and polisher activate the said function and two speed mechanism in which by pressing the said switch to position one activate the first function of the forward and backward spin mechanism at a certain speed with a brush hooked on the spinning part of the unit mounted to a short shaft, position two activate the motor to spin around clockwise for the brushing process and position three for polishing and shining at a speed more faster than position two and may or not require the change of the brush as suited to any user for the final process and an anti clockwise spin mechanism could be added or programmed in the electrical motor as a future. A hole located at the bottom of the unit accommodates the power lead to provide a continuous power supply and a power base to house and recharge the battery. The electric shoe brush and polisher comes as a kit in a bag with a complete set of brushes and a space to store shoe cream cans.

The electric shoe brush and polisher kit is design and built to suit all kind of users, a simple and enjoyable concept which provide the need to keep shoes always clean and polish.

Preferably, there is a hole at the base of the unit to plug in the electrical lead for continuous power supply.

Preferably, an anti clockwise spinning mechanism will be programmed to the electric motor.

Preferably, a red, yellow and green light mounted in the unit indicate the level of the battery, for red when the battery is empty, yellow when the battery is half charged, and green when the battery is fully charged.

Preferably, there will be a version of electric shoe brush and polisher kit power by normal conventional battery.

The invention will now be described in details by referring to the accompanying drawings in which:

Figure 1 shows the compartment which houses the motor the electric shoe brush and polisher kit.

Figure 2 shows the switch which operates the functions of the electric shoe brush and polisher kit.

Figure 3 shows the spinning part of the plastic base brush holder of the electric shoe brush and polisher kit.

Figure 4 shows a shoe brush hooked in the spinning part of the electric shoe brush and polisher kit.

Figure 5 shows the cover of the belly of the compartment in a form of a handle in which the battery or the rechargeable battery is located.

Figure 6 shows a mini shoe brush hooked in the spinning part used to access area where a large brush can not.

Figure 7 shows the lights which indicate the level of the battery charged.

Figure 8 shows a cotton base material brush hooked to the spinning part design for shoe polishing.

Figure 9 shows the holes used to hook the brushes.

Figure 10 shows an undulated sponge base material hooked to the spinning part of the electric shoe brush and polisher design for shoe shining.

Figure 11 shows the two points used to recharge the battery with the base holder.

Figure 12 shows a hole in which a power lead can be plugged-in for continuous power supply.

Figure 13 shows the teeth integrated in the spinning part of the electric shoe brush and polisher kit design to stabilise the brush hooked on it.

Figure 14 shows a base which house and charge the electric shoe brush and polisher kit.

Figure 15 shows different kind and size of brush used for the process.

Figure 16 shows different versions, design or forms of the electric shoe brush and polisher.

**Claims**

The electric shoe brush and polisher kit which is operated by an electrical motor in which a short shaft is attached and were a rounded plastic base brush holder is mounted execute different functions in which the first function of the motor is to provide a forward and backward spin or rotating movement, and a clockwise spinning movement for the next function were a switch mounted on top of the electric shoe brush and polisher kit activate the whole mechanism, and holes and teeth's integrated in the spinning part of the electric shoe brush and polisher kit are design to stabilise and hook-in different size of brushes and polishers, a rechargeable battery mounted in the belly of the unit in a form of a handle operate the said unit in some cases, with lights to indicate the level of the battery as well as a hole integrated at the bottom of the said electric shoe brush and polisher kit in which a power plug can be directly plugged-in to provide continuous power supply and a base to house and recharge the battery of the said electric shoe brush and polisher kit.



For Innovation

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**Application No:** GB0612362.4

**Examiner:** Rhodri Evans

**Claims searched:** 1

**Date of search:** 16 January 2007

## 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	DE 202004011032 U1 (Graf) all figures and WPI abstract accession number 2005/166043 [18].
X	1	EP 0744139 A1 (Clifffield) all figures and line 7-31 of column 6.

### 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>:

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

A46B; A47L

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

WPI, EPODOC