

(12) UK Patent Application (19) GB (11) 2 124 404 A

(21) Application No 8319217

(22) Date of filing 15 Jul 1983

(30) Priority data

(31) 5195

(32) 20 Jul 1982

(33) Italy (IT)

(43) Application published

15 Feb 1984

(51) INT CL³

G02C 13/00

(52) Domestic classification

G2J S7B

(56) Documents cited

GB 1081624

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GB 0806980

GB 0679437

EP A1 0019729

(58) Field of search

G2J

A4F

A4K

(71) Applicant

Michele Zappa,

61 Via Provinciale, Sale

Marasino, Brescia, Italy

(72) Inventor

Michele Zappa

(74) Agent and/or Address for Service

Potts, Kerr and Co.,

15 Hamilton Square,

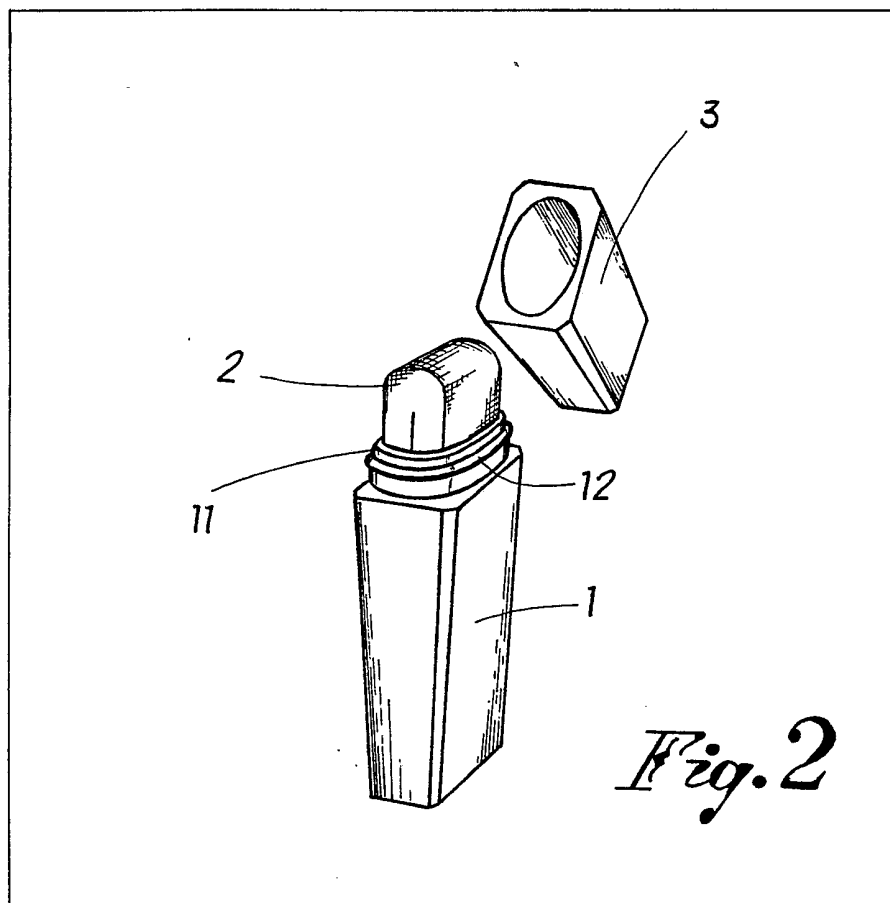
Birkenhead, Merseyside

L41 6BR

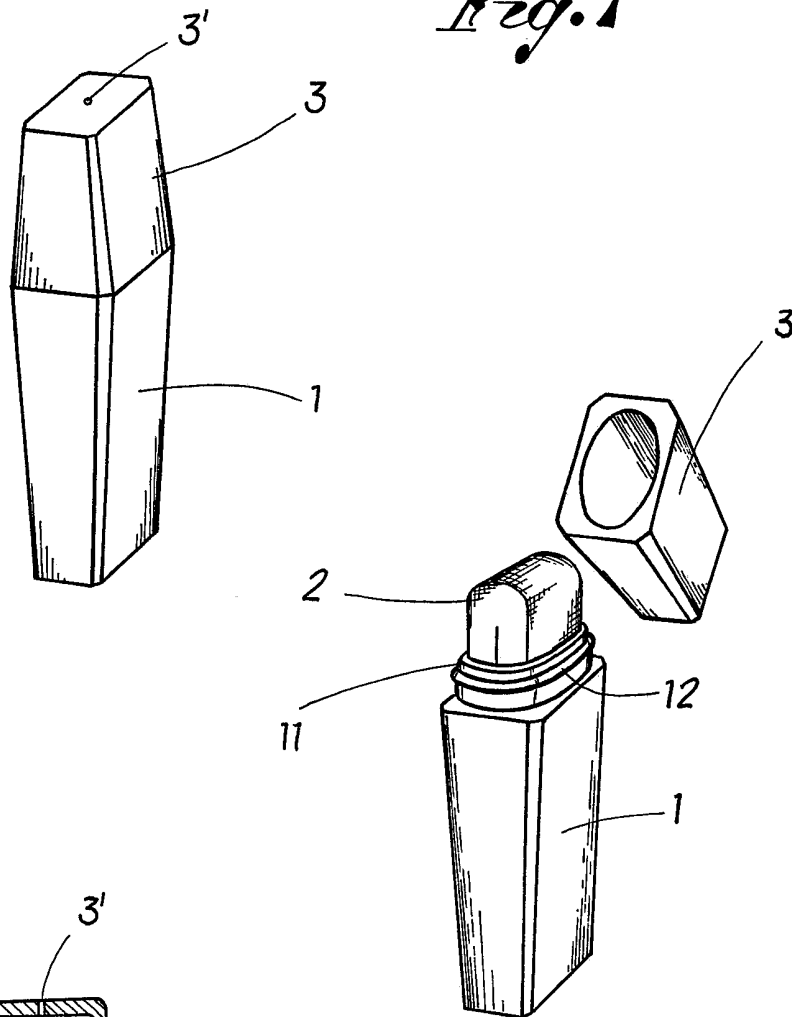
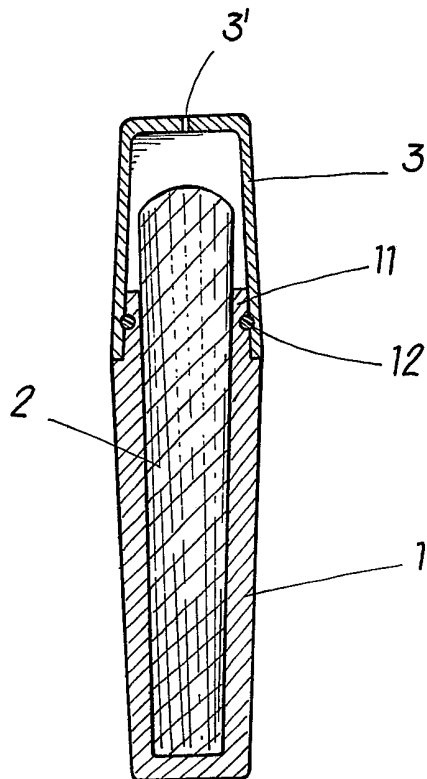
(54) A pad device for cleaning
spectacle lenses

(57) A pad device for cleaning
spectacle lenses comprises a

container or box (1) enclosing a
member (2) of absorbent material
soaked with a liquid suitable for
degreasing, cleaning, polishing and
coating the lenses.



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Fig. 1*Fig. 2**Fig. 3*

SPECIFICATION

A pad device for the treatment, cleaning and long term polishing of spectacle lenses or the like surfaces

5 The present invention relates to a pad for the treatment, cleaning and long term polishing of objects made of glass, plastics or the like surfaces such as lenses, for example, spectacle lenses.

10 At the present time simple pieces of cloth or soft natural or synthetic skins whose sole advantage is that they could avoid scratching the objects in question are used for cleaning spectacle lenses or objects and articles made of glass, plastics or the like. However, these must always
15 be moistened first with detergent materials when these objects are to be cleaned carefully, even though in the case of lenses it is generally sufficient to breathe on them and then wipe them with the cloth or similar to dry them and remove the dust or dirt. The cleaning and polishing
20 achieved by this means is often only temporary and short-lived when it is not supplemented by any treatment which actually protects the lenses or the other articles of glass or the like.

25 However, in the chemical field fluids of synthetic materials such as polymers are already known and these through their characteristics and chemical/physical properties can advantageously be used, for example, as:

- 30 — insulating fluids in pulse transformers, condensers, transformers, television circuit components, etc.,
- fluids for diffusion pumps in high vacuum systems,
- 35 — antifoaming agents,
- substances for the water-repellent finishing of textiles,
- substances for high temperature treatment baths,
- 40 — lubricants for valves, small mechanical components or parts, textile materials, etc.,
- components, though not the main components, in the preparation of materials for the cleaning of furniture, floors, coachwork, etc.,
- 45 when formulated with waxes, soaps, solvents, abrasives, water, etc.

These fluids of synthetic material have never before been specifically formulated and prepared for use as in the intended scope of this invention.

50 It is therefore an object of the invention to provide a pad device or in any event, means for the more appropriate cleaning, polishing, and preservation of spectacle lenses in particular and objects of glass, plastics or the like, a pad device
55 or means which will be effective and easy and convenient in use.

Another object of the invention is to provide a pad device or in any event means containing a fluid of synthetic material such as at least one
60 polymer capable of degreasing, cleaning, polishing, coating and effectively protecting spectacle lenses in particular, and objects of glass, plastics or the like in general.

A further object of this invention is to provide a

65 pad device which can be placed in the pocket, is of small size, can be used for long periods and is able to mould itself to any shape of the objects being cleaned.

According to the present invention there is
70 provided a pad device for the treatment, cleaning and long term polishing of spectacle lenses, comprising a container or box enclosing a reservoir member of absorbent material having a portion projecting from the said container or box
75 soaked with fluid of synthetic material which is suitable for degreasing, cleaning, polishing and coating the surfaces of the lenses over which the absorbent material has been wiped with a protective film.

80 The invention will be described further, by way of example, with reference to the accompanying drawings, in which:—

Figs. 1 and 2 are perspective views of a pad or device according to the invention showing,
85 respectively, a cover in its closing portion and removed to permit use of the pad; and

Fig. 3 is a longitudinal section through the device of Figs. 1 and 2.

A pad device is illustrated comprising a
90 container or box 1 containing an absorbent reservoir member 2, a portion of which member 2 projects beyond a tapered portion 11 of the container or box (1). The tapered portion 11 is fitted with a seal 12 and a closing cap 3 is
95 provided having a small vent hole 3'.

Container box 1 with its corresponding cap 3 is of a size such that it can easily be placed in the pocket and be readily handled and, if necessary, may be placed in a protective wallet.

100 Reservoir member 2 comprises a suitable material e.g. porous and absorbent agglomerated natural or synthetic fibre or felt or cloth or non-woven cloth or, in any event, a flexible material having appropriate capillarity and porosity to ensure, firstly, proper absorption of the fluid and,
105 secondly, distribution of the fluid when it is laid on and wiped over the surface which is to be cleaned.

Reservoir member 2 is soaked or imbued with a synthetic fluid such as a polymer suitable for the
110 degreasing, cleaning, polishing and protection of spectacle lenses or other objects made of glass, plastics or similar materials.

Thus in use of the pad device it is only necessary to remove the cap 3 and place the
115 reservoir member 2 on the lens or the surface and wipe it over in said surface in order to clean and polish it without the danger of scratching it or abrading it. Lenses which have been treated in this way have a polish which cannot be achieved by
120 other means and the film of synthetic fluid or polymer which is deposited on the treated surface in practice forms a protective coating which keeps the surface clean and polished for a long period of time and prevents or minimizes scratching or
125 abrasion.

Even when the surfaces treated bear scratches or capillary scratches these become filled with the treatment fluid and are rendered invisible because of the perfect transparency and refraction of the

fluid used.

CLAIMS

1. A pad device for the treatment, cleaning and long term polishing of spectacle lenses,
5 comprising a container or box enclosing a reservoir member of absorbent material having a portion projecting from the said container or box soaked with fluid of synthetic material which is suitable for degreasing, cleaning, polishing and
10 coating the surfaces of the lenses over which the absorbent material has been wiped with a protective film.
2. A device as claimed in claim 1, in which the reservoir member comprises a flexible and soft
15 material such as an agglomerate of natural or synthetic fibre or felt cloth or non-woven cloth or a

porous material with a capillarity capable of firstly absorbing and retaining the synthetic treatment fluid and then distributing it over the surfaces to be treated.

- 20 3. A device as claimed in claim 1 or 2, in which the end of the container or box from which the reservoir member projects is tapered and is fitted externally with a seal, and in which a cover or
25 closing cap having a small vent hole can be applied to the end of the box bearing the seal to locate over said reservoir member.
4. A device as claimed in any of claims 1 to 3, in which the fluid is a polymer.
- 30 5. A pad device substantially as herein described with reference to and as illustrated in the accompanying drawings.