

## Arrangement for Handling Cigarette and Cigarillo Butts

The invention relates to an arrangement for handling cigarette and cigarillo butts.

For smokers of cigarettes and cigarillos, the problem often arises of what they are to do with the butts of smoked cigarettes or cigarillos when no ashtray is available. Often, the cigarette or cigarillo butts are then simply discarded, which is not only unsanitary and contributes to pollution of the environment, but rather also entails the danger that the discarded cigarette or cigarillo butts, if they have not been properly extinguished, can trigger a fire, in particular if cigarette or cigarillo butts are discarded in the great outdoors.

The object of the invention is to provide a remedy here.

This object is achieved with an arrangement that has the features of Claim 1.

Preferred and advantageous configurations of the invention are the subjects of the subclaims.

The arrangement according to the invention has bags into which cigarette or cigarillo butts can be put and stored therein until they can be properly disposed of.

For example, the butt-filled bags of the arrangement according to the invention can be kept in the cigarette pack itself until they are disposed of.

The invention also makes it possible to store the strips of the arrangement as compactly as possible with at least two bags that are joined together in the cigarette pack,

so that the bags are then always available and within reach if they are required to store a cigarette or cigarillo butt until it can be properly disposed of.

Other details and features of the invention follow from the description below of preferred embodiments with reference to the drawings.

Here:

Fig. 1 diagrammatically shows cigarettes or cigarillos as they are arranged in a pack, together with an arrangement for handling cigarette or cigarillo butts,

Fig. 2 shows the arrangement, as it is accommodated in a cigarette or cigarillo pack, by itself,

Fig. 3 shows the preparation of the arrangement for use,

Fig. 4 shows the arrangement as such with the sleeve removed,

Fig. 5 shows the loosely rolled-together arrangement,

Fig. 6 shows an arrangement of bags for accommodating cigarette or cigarillo butts,

Fig. 7 to Fig. 10 show in stages the use of a bag of the arrangement according to the invention when handling cigarette or cigarillo butts,

Fig. 11 diagrammatically shows an arrangement of cigarettes or cigarillos in a pack and another embodiment of an arrangement for handling cigarette or cigarillo butts as an enclosure in the cigarette or cigarillo pack,

Fig. 12 shows the arrangements of how the latter are alternatively accommodated in a cigarette or cigarillo pack,

Fig. 13 shows the preparation of the arrangement for use that is loose, hanging-together and partially unfolded,

Fig. 14 shows an arrangement of bags for the accommodation of cigarette or cigarillo butts, and

Fig. 15 to Fig. 19 show in stages the use of a bag of the arrangement according to the invention when handling a cigarette or cigarillo butt,

Figs. 20 and 21 diagrammatically show cigarettes or cigarillos in a pack with arrangements for handling cigarette or cigarillo butts in two additional embodiments as an enclosure in the cigarette or cigarillo pack,

Fig. 22 shows the preparation of the arrangement of Fig. 20 for use,

Fig. 23 shows the preparation of the arrangement of Fig. 21 for use,

Fig. 24 shows the arrangement of bags that is loose, hanging-together, but unfolded for the accommodation of cigarette or cigarillo butts, and

Figs. 25 to 29 show in steps the use of a bag of the arrangement according to the invention when handling a cigarette or cigarillo butt.

One arrangement according to the invention in the embodiment shown in Fig. 6 consists of a strip 1 that has several bags 3, in particular is divided into several bags 3. Each bag 3 is formed from two layers of material that are connected to one another along three sides of the bag 3, for example by a weld or sealing seam 5, so that the bags have an access opening 10 above. As shown in Fig. 6, the bags 3 of the arrangement are connected with one another to form a strip 1, whereby the number of bags 3 is arbitrary; thus, two or more than two bags 3 can be contained in the arrangement. The bags 3 can be separated individually from the arrangement, and therefore between the bags 3, scoring lines 7, such as perforations or the like, are provided with an additional tear-off aid 4 in the form of a punched-out triangle on the upper end of the scoring lines 7. For

easier opening (access opening 10), in the upper area 4 of the bag 3, the two layers of the strip 1, which can consist of two or more bags 3, are not connected either by a weld or by a sealing seam 5.

For the accommodation in a cigarette or cigarillo pack (Fig. 1), the embodiment of the arrangement according to the invention that is shown in Figs. 1 to 5, is rolled, as shown in Fig. 5, and put into a sleeve 9, which extends over a portion of the length of the arrangement. Thus, the arrangement can be stored in a cigarette or cigarillo pack, in particular when it corresponds essentially to the dimensions of a cigarette or a cigarillo 11.

If a bag 3 is required to accommodate a cigarette or cigarillo 12 and to store it until final, proper disposal, the sleeve 9 is pulled from the arrangement (Figs. 2, 3 and 4), the arrangement is rolled up specifically at least to the extent that the first bag 3 can be grasped for separation.

Then, the bag 3 is opened (cf. Figs. 7 to 10) in the area of its opening 10 by pressing together the seams 5 (arrow 8 in Fig. 7). Afterwards, a cigarette or cigarillo butt 12 is put into the bag (Fig. 8). Then, the bag 3 is refolded at least once, but preferably several times, for sealing (Figs. 9 and 10).

An environmentally safe and non-polluting handling of cigarette or cigarillo butts 12 is thus possible until they can be disposed of at a suitable disposal site.

The material of which the arrangement according to the invention consists is preferably a material that is heat-resistant, so that cigarette or cigarillo butts 12 that are not extinguished or not completely extinguished can be accommodated. For example,

metal-coated, in particular aluminum-coated, paper has proven its value as material, whereby the aluminum coating comes to rest on the inside of the bag 3.

As shown in Fig. 6, each bag has an essentially rectangular outline.

In one embodiment, not shown, arrangements for sealing thereof, such as straps, or the like, can also be assigned to each bag 3 in the area of the access opening 10.

In the embodiment that is shown in Figs. 11 to 19, the arrangement according to the invention consists of a strip 1, which has two or more bags 3, and is divided in particular into several bags 3. Each bag 3 is formed from two layers of material, which are connected to one another along three sides, for example by a weld or sealing seam 5.

In all embodiments of the invention, the bags 3 can also consist of a tube (section) that is sealed on one end, e.g., with a weld or sealing seam 5.

As shown in Fig. 14, the essentially rectangular bags 3 of the arrangement are connected to one another on their narrow sides to a strip 1, whereby the number of bags 3 is arbitrary. Thus, two or more than two bags 3 can be contained in the arrangement. The individual bags 3 can be separated from the arrangement, and therefore scoring lines 7, e.g., perforations, with an additional tear-off aid 4 in the form of a triangle that is punched out on the ends of the scoring line 7, are provided between the bags 3. For easier opening, in the upper area 2 of the bag 3, the bags 3 that are separated from the strip 1, which can consist of several bags 3, are open, i.e., the layer or the tube is not connected or sealed there either by a weld or by a sealing seam 5.

For the accommodation in a cigarette or cigarillo pack (Figs. 11/ 12), the arrangement according to the invention, as shown in Figs. 11/12, folds together flat and is used in cigarette or cigarillo packs (Figs. 11/12). The arrangement can be stored in a

cigarette or cigarillo pack in the area of its narrow side (Fig. 11), or one or two arrangements are stored in the area of the wide side (Fig. 12) of a cigarette or cigarillo pack.

When a bag 3 is required to accommodate a cigarette or cigarillo pack 12 and to store it until final, proper disposal, the arrangement is unfolded, specifically at least to the extent that the first bag 3 can be grasped for separation.

Then, (cf. Figs. 15 to 19), the bag 3 is opened at its access opening 10 by pressing the edges together (Fig. 16). Afterwards, a cigarette or cigarillo butt 12 is put into the bag 3 (Fig. 17). Then, the bag 3 is refolded at least once, but preferably several times, for sealing (Figs. 18 and 19).

In one embodiment, not shown, arrangements for sealing thereof, such as straps, or the like, can also be assigned to each bag 3 in the embodiment shown in Figs. 11 to 19.

In the embodiments that are shown in Figs. 20 to 29, the arrangement according to the invention consists of a strip 1, which has several bags 3, in particular is divided into several bags 3, whereby the bags 3 adjoin one another with their longitudinal sides. Each bag 3 is formed from two layers of material that are closed along three sides and are connected to one another, for example by a weld or sealing seam 5. As shown in Fig. 24, the bags 3 of the arrangement are connected to one another at a strip 1, whereby the number of bags 3 is arbitrary, and thus two or more than two bags 3 can be contained in the arrangement. The individual bags 3 can be separated from the arrangement, whereby between the individual bags 3, scoring lines 7, such as perforations or the like, are provided with an additional tear-off aid 4 in the form of a punched-out triangle on the ends of the scoring lines 7. For easier opening, in the upper area 2 of the bag 3, the bags

3 that are separated from strip 1, which can consist of several bags 3, are not sealed either by a weld or a sealing seam 5, so that the bags 3 have an opening 10 that lies in particular on a narrow side.

For the accommodation in a cigarette or cigarillo pack (Figs. 20/21), the arrangement according to the invention, as shown in Figs. 20/21, is folded flat and inserted into cigarette or cigarillo packs. Thus, the arrangement (Fig. 20) can be stored in a cigarette or cigarillo pack on its narrow side if it is folded as shown in Fig. 22. When the arrangement, i.e., the strip 1 is folded as shown in Fig. 23, the arrangement can be inserted in the area of the wide side of a cigarette or cigarillo pack 11 as shown in Fig. 21.

If a bag 3 is required to accommodate a cigarette or cigarillo butt 12 and to store it until final, proper disposal, the arrangement is unfolded specifically at least to the extent that the first bag 3 can be grasped for separation.

Then, (cf. Figs. 25 to 29), the bag 3 is opened on its open side 10 by pressing together the seams 5 (Fig. 26). Afterwards, a cigarette or cigarillo butt 12 is put into the bag 3 (Fig. 27). Then, the bag 3 is refolded at least once, but preferably several times, for sealing (Figs. 28 and 29).

In summary, a preferred embodiment of the invention can be described, for example, as follows:

An arrangement for accommodating cigarette or cigarillo butts and optionally also cigarette or cigarillo ashes comprises a strip 1 with bags 3 that are connected together and that can be separated along at least two longitudinal perforations 7 and tear-off aids 4. The strip 1 can be stored in a cigarette or cigarillo pack in rolled-up or folded form.

## Claims:

1. Arrangement for handling cigarette or cigarillo butts, comprising a strip (1) with two or more than two bags (3) that are joined together, wherein each bag (3) is formed from two layers of material that are connected to one another by seams (5) along the edges while leaving open a filling opening (10), characterized in that the strip (1) of the arrangement is rolled up for accommodation in a cigarette or cigarillo pack.

2. Arrangement for handling cigarette or cigarillo butts, comprising a strip (1) with two or more than two bags (3) that are joined together, wherein each bag (3) is formed from two layers of material that are connected to one another by seams (5) along the edges while leaving open a filling opening (10), characterized in that the strip (1) of the arrangement is folded flat for accommodation in a cigarette or cigarillo pack.

3. Arrangement according to claim 1, wherein the bags (3) are tube sections that are closed at one end.

4. Arrangement according to one of claims 1 to 3, wherein each bag (3) has an essentially rectangular outline.

5. Arrangement according to one of claims 1 to 4, wherein scoring lines (7), which optionally are provided at least on one end with a tear-off aid (4), for example in the form of a triangular punch-out, are provided between two bags (3) of the strip (1) of the arrangement.

6. Arrangement according to one of claims 1 to 5, wherein the bags (3) have a metal coating on the inside.

7. Arrangement according to one of claims 1 to 6, wherein the bags (3) consist of metal-coated paper.

8. Arrangement according to one of claims 4 to 7, wherein the bags (3) of the strip (1) are connected to one another on their narrow sides.

9. Arrangement according to one of claims 4 to 7, wherein the bags (3) of the strip (1) are connected to one another on their longitudinal sides.

10. Arrangement according to claim 1, wherein a sleeve (9) is attached over the rolled-up strip (1) of the arrangement.

11. Arrangement according to claim 1 or 11, wherein the rolled-up strip (1) of the arrangement has essentially the dimensions of a cigarette or a cigarillo (11).

12. Arrangement according to claim 2, wherein a sleeve is attached over the folded strip (1) of the arrangement.