A PAPER WRAPPER FOR AN ELECTRICALLY HEATED AEROSOL-GENERATING ARTICLE

The present invention relates to a paper wrapper for an electrically heated aerosol-generating article, an electrically heated aerosol-generating article comprising the paper wrapper, and the use of the paper wrapper in the manufacture of an electrically heated aerosol-generating article.

One type of aerosol-generating system is an electrically operated smoking system. Known handheld electrically operated smoking systems typically comprise an aerosol-generating device comprising a battery, control electronics and an electric heater for heating an aerosol-generating article designed specifically for use with the aerosol-generating device. In some examples, the aerosol-generating article comprises a plug of an aerosol-generating substrate, such as a tobacco plug, and the heater contained within the aerosol-generating device is inserted into the aerosol-generating substrate when the aerosol-generating article is inserted into the aerosol-generating device.

However, in some cases the consumer may experience difficulty in removing the aerosol-generating article from the aerosol-generating device after use. For example, in some instances an outer wrapper of the aerosol-generating article may tear when removing the aerosol-generating article from the aerosol-generating device, which may contaminate the interior of the aerosol-generating device with portions of the wrapper and portions of the aerosol-generating substrate.

Accordingly, it would be desirable to provide a wrapper for an electrically heated aerosol-generating article that facilitates removal of the aerosol-generating article from an aerosol-generating device. It would be particularly desirable to provide such a wrapper that minimises the risk of the wrapper tearing when removing the aerosol-generating article from the aerosol-generating device.

According to a first aspect of the present invention there is provided an aerosol-generating article which can be electrically heated comprising an aerosol-generating substrate, a mouthpiece, and a paper wrapper circumscribing at least a portion of the aerosol-generating substrate. The aerosol-generating substrate comprises at least one aerosol former in an amount of between about 5 percent and about 30 percent by weight of the aerosol-generating substrate. The paper wrapper has a wet tensile strength of at least about 5 Newtons per 15 millimetres when measured in accordance with the Wet Tensile Strength Test using a 1:1 mixture of water and glycerine.

Disclosed herein is a paper wrapper for an electrically heated aerosol-generating article, the paper wrapper having a

wet tensile strength of at least about 5 Newtons per 15 millimetres when measured in accordance with the Wet Tensile Strength Test.

generating substrate and the mouthpiece, the paper wrapper preferably circumscribes the one or more additional components.

In any of the embodiments described above, the mouthpiece may comprise a filter. The filter may be formed from one or more suitable filtration materials. Many such filtration materials are known in the art. In one embodiment, the mouthpiece comprises a filter formed from cellulose acetate tow.

The mouthpiece may have a length of between about 5 millimetres and about 14 millimetres. In one embodiment, the mouthpiece may have a length of approximately 7 millimetres.

The aerosol-generating article may be substantially elongate. The aerosol-generating article may be substantially cylindrical in shape.

The aerosol-generating substrate may be substantially elongate. The aerosol-generating substrate may be substantially cylindrical in shape.

The aerosol-generating article may have a total length of between about 30 millimetres and about 100 millimetres. In one embodiment, the aerosol-generating article has a total length of approximately 45 millimetres.

The aerosol-generating article may have an external diameter of between about 5 millimetres and about 12 millimetres. In one embodiment, the aerosol-generating article may have an external diameter of approximately 7.2 millimetres.

The aerosol-generating substrate may have a length of between about 7 millimetres and about 15 mm. In one embodiment, the aerosol-generating substrate may have a length of approximately 10 millimetres. In an alternative embodiment, the aerosol-generating substrate may have a length of approximately 12 millimetres.

The aerosol-generating substrate preferably has an external diameter that is approximately equal to the external diameter of the aerosol-generating article.

The aerosol-generating substrate may have an external diameter of between about 5 millimetres and about 12 millimetres. In one embodiment, the aerosol-generating substrate may have an external diameter of approximately 7.2 millimetres.

The present invention also extends to the use of the paper wrapper in the manufacture of an electrically heated aerosol-generating article, in accordance with any of the embodiments described above. Disclosed herein is use of a paper wrapper in the manufacture of an electrically heated aerosol- generating article, the paper wrapper having a wet tensile strength of at least about 5 Newtons per 15 millimetres when measured in accordance with the Wet Tensile Strength Test. Preferably, the paper wrapper further comprises a dry tensile strength of at least about 10 Newtons per 15 millimetres when measured in accordance with the Dry Tensile Strength Test.