A Haircare Appliance

This invention relates to a haircare appliance and in particular to a filter for a haircare appliance.

In a conventional hot styling appliance, air is drawn into an inlet by a fan unit and directed towards the hair by an outlet. Often, one appliance is provided with different attachments, each having a different outlet and thus a different function, for example drying, curling or volumising. Depending on the style desired, the air may or may not be heated. The attachment may include bristles onto which hair is wrapped and held for styling. Conventionally a filter is provided to filter fluid that enters the appliance to remove dust and hair.

Traditionally, hairdryers have a casing and a handle where the casing houses components such as the filter, fan unit and heater. Hair styling appliances in contrast are held by the casing.

It is known to provide multi layered filtering systems for example with grille having relatively large apertures and an inner filter having relatively small apertures. Often the grille is removable to enable cleaning of the inner filter, or even replacement of one of the layers of the filter in the event of damage. The grille can be friction fitted, twisted onto, mechanically attached or snapped onto a casing of the appliance.

Often, the appliance comprises a cable for supplying power in the vicinity of the fluid inlet and filter of the appliance. If the filter is removed for cleaning, it will still be retained on the cable and it is preferred to remove it from the cable. The present invention seeks to provide a filter which can be completely removed from the appliance for washing and replaced without compromising filtration.

Summary

The ~~invention~~disclosure provides a hair care appliance comprising: a housing having a first end and a second end and a fluid inlet which extends around the housing and is proximate

the first end of the housing, a fluid outlet, a fluid flow path extending within the housing between the fluid inlet and the fluid outlet, wherein the fluid inlet is provided with a filtering system comprising a removable portion and a fixed portion wherein the removable portion comprises a first part and a second part which are separable and wherein the first part can only be secured to the housing when the second part is attached to the first part.

The first part may be a sleeve capable of sliding over the second part.

In one aspect, the present disclosure refers to a hair care appliance comprising:
a housing having a first end and a second end and a fluid inlet which extends around the housing and is proximate the first end of the housing,
a fluid outlet,
a fluid flow path extending within the housing between the fluid inlet and the fluid outlet, wherein the fluid inlet is provided with a filtering system comprising a removable portion and a fixed portion wherein the removable portion comprises a first part and a second part which are separable and wherein the first part can only be secured to the housing when the second part is attached to the first part wherein the first part is a sleeve capable of sliding over the second part.

The second part may comprise a tubular portion and base portion extending radially out from the tubular portion at one end of the tubular portion.

The base portion may provide a circumferential ledge which engages with an end of the first part of the removable portion when the first part is connected to the second part.

The removable portion may be retained with respect to the fluid inlet via a magnetic coupling, wherein a first part of the magnetic coupling is housed within the base portion. The removable portion may be attached to the housing by sliding the removable portion over the fixed portion in a first direction.

The first part may be attached to the second part by sliding the first part over the second part in a second direction which is opposite to the first direction.

The second part may comprise a frame which surrounds and delimits one or more layers of filter media.

The fixed portion may comprise a filter mesh surrounded and supported by a mesh frame. The mesh frame may comprise a channel which forms a first piece of a mechanical coupling between the fixed portion and the removable portion.