

CLAIMS

1. A hair care appliance comprising:
 - 5 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
10 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.
- 15 2. An appliance according to claim 1, wherein the second part comprises a tubular portion and base portion extending radially out from the tubular portion at one end of the tubular portion.
- 20 3. An appliance according claim 2, wherein the base portion provides 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.
- 25 4. An appliance according to claim 3, wherein the removable portion is 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.
5. An appliance according to any preceding claim wherein the removable portion is attached to the housing by sliding the removable portion over the fixed portion in a first direction.

6. An appliance according to claim 5, wherein the first part is 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.
- 5 7 An appliance according to any preceding claim, wherein the second part comprises a frame which surrounds and delimits one or more layers of filter media.
8. An appliance according to any preceding claim, wherein the fixed portion comprises a filter mesh surrounded and supported by a mesh frame.
- 10 9. An appliance according to claim 8, wherein the mesh frame comprises a channel which forms a first piece of a mechanical coupling between the fixed portion and the removable portion.
- 15 10. An appliance according to claim 9, wherein the removable portion comprises second and third pieces of the mechanical coupling between the fixed portion and the removable portion of the filtering system wherein the second and third pieces of the mechanical coupling are adapted to cooperate with the channel in the mesh frame.
- 20 11. An appliance according to any preceding claim, wherein the removable portion of the fluid inlet has an open state and a closed state, wherein the removable portion can only be attached to the fixed portion it is in the closed state.
12. An appliance according to claim 11, wherein when the removable portion is
25 removed from the fixed portion the second and third pieces of the mechanical coupling can be split into two sections.
13. An appliance according to claim 11 or claim 12, wherein the first part of the removable portion comprises the second piece of the mechanical coupling which
30 comprises a housing to house a protrusion in a first section and a cooperating recess in a second section of the mechanical coupling.

14. An appliance according to claim 13, wherein the second part of the removable portion comprises the third piece of the mechanical coupling which comprises a connecting portion having one or more of a magnet or magnetisable material in both the first section and the second section.
15. An appliance according to claim 14, wherein fluid inlet further comprises a switch which senses the presence of the removable portion of the filtering system and allows activation of the appliance only when the removable portion of the filtering system is attached.
16. An appliance according to claim 15, wherein the switch is a reed switch housed within the mesh frame which detects the third piece of the mechanical coupling closing a pair of electrical contacts when the removable portion of the filtering system is attached and opening the pair of electrical contacts when the removable portion of the filtering system is removed.
17. An appliance according to any preceding claim wherein the appliance is a hairdryer, a hair styling appliance, a hot styling brush or a straightening device having airflow.