

**Permeable electric thermal resistor foil for vaporizing fluids
from single-use mouthpieces with vaporizer membranes**

ABSTRACT

A heating device in the form of a metallic film or thin sheet in the shape of a double spiral (101) and/or sinuous line (102) having two ends and with the cross-sectional dimension of a cigarette or small cigar, for vaporising substances containing active and/or aromatic ingredients from a mouthpiece (3) in the form of a hollow cylinder (31) comprising one or more vaporisation membranes (32) and a flange (33) for detachable connection to a controlled or regulated electrical voltage source (4), wherein the intermediate spaces of the double spiral and/or sinuous line of the heating device are open and thus permeable to flowing fluids, and wherein the heating device is in surface contact with at least one vaporisation membrane, which is also permeable to flowing fluids and is wetted or becomes wetted with a substance containing active and/or aromatic ingredients to be vaporised, and wherein the heating device and the at least one vaporisation membrane are arranged orthogonally or at an angle to the fluid stream passing through the mouthpiece, wherein the fluid stream flows through the heating device and the vaporisation membranes completely, wherein the heating device vaporises the substances containing active and/or aromatic ingredients located on the vaporisation membrane or membranes and supplies said substances to the fluid stream.

Figure 1