

SARABER

Ing. P. Saraber

Dornach, 18/12/81

BAT Co. (Nederland) B.V.,
Amsterdam.

Dear Sirs,

On the recommendation of the Chamber of Commerce Holland - Switzerland, we should like to enquire whether your Company would be interested in using a newly developed filter for cigarettes.

Enclosed please find a brief description of the operating principles of the filter, which works without chemicals. Production requires no re-organisation of the manufacturing plant.

Should you like to go further into this matter, I suggest a meeting at which all technical questions can be discussed in detail.

I look forward to your comments.

Yours faithfully,
P. Saraber

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Brief description of the Turbo Cigarette Filter

The effects of the filter, which in addition to removing nicotine from the tobacco smoke also reduces the highly toxic gases, lie in the fact that by a turbulent swirling of the smoke throughout, nicotine and tar particles, incorporating molecules from the gaseous phase, e.g. carbon monoxide, conglomerate in coarse particles which by heterogeneous reaction form a deposit on the walls of the smoke duct.

With the 65 mm long cigarette tip exhibited by me for the first time at the Inventors' Show Muba 1981, the necessary through-swirl of the smoke was achieved through repeated alterations in smoke direction and speed, with a long smoke duct of 500/600 mm.

The length of the smoke duct is of the greatest importance with this filter type and cannot therefore be optionally reduced, as would be necessary for use in filter cigarettes. Accordingly, a new filter was developed for cigarettes.

In this newly developed cigarette filter, the smoke turbulence is intensified through technical finesse in such a way that the filter's whole effectiveness is improved. In this way, this filter of an ordinary length of 25 mm (smoke duct about 250 mm) can guarantee a more intensive through-swirl and therefore a more effective removal of toxic substances from the smoke than the previous longer cigarette filter.

Despite its greater efficiency, this filter does not increase production costs.

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