

HEALTHY SMOKING! MACHINE FOR MAKING FILTERS THAT REDUCE THE INHALATION OF NICOTINE, TARS AND TOXIC COMPOUNDS IN TOBACCO SMOKE

P PATENTED TECHNOLOGY

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ABSTRACT

The *Institute of Chemical Process Engineering* of the University of Alicante has developed a machine that makes it possible to manufacture filters capable of trapping 60% of the nicotine and tars present in tobacco smoke, as well as a large part of the rest of the toxic and carcinogenic compounds.

The process used is fully automated, very fast, environmentally friendly and produces very economical and efficient filters for RYO, MYO and conventional cigarettes. Scientific experiments carried out in the laboratory confirm the excellent results of this new filter concept that protects the health of smokers.

The technology is patent protected. We are looking for companies interested in acquiring this technology for its commercial exploitation worldwide.

ADVANTAGES AND INNOVATIVE ASPECTS

ADVANTAGES OF THE TECHNOLOGY

The main advantages of this new technology are listed below:

- 1) It is very economical to manufacture these filters.
- 2) The process can be fully automated, which significantly increases production capacity.
- 3) The manufacturing process is very fast.
- 4) The materials used are environmentally friendly.
- 5) The raw materials used are commercially available and readily available.
- 6) The resulting filters are very effective (they reduce between 60-75% of nicotine and tars, among other toxic compounds).
- 7) The pleasant sensation of the smoking process is maintained (the flavour does not change, nor does the number of puffs increase).
- 8) The membrane is inseparable from the filter, which is very convenient for the user.

INNOVATIVE ASPECTS OF THE TECHNOLOGY

1. There is no commercial equipment on the market capable of automatically producing such filters that protect the health of smokers.
2. The machine allows several stages of the production process to be carried out simultaneously, which significantly increases the production capacity of the filters and they can be mass-produced.
3. This innovative technology can be easily implemented in the production of conventional filters and cigarettes.

MARKET APPLICATIONS

The present invention is related to the **tobacco sector**, specifically, to the **manufacture of filters** for use in:

- RYO (Roll-Your-Own) type cigarettes.
 - MYO (Make-Your-Own) cigarettes.
 - Conventional cigarettes.
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COLLABORATION SOUGHT

Companies interested in acquiring this technology for **commercial exploitation** are sought:

- Patent licensing agreements.
- Development of new applications.
- Agreements on technology and knowledge transfer.

Company profile sought:

- Manufacturers of filter machines for conventional cigarettes.
 - Manufacturers of filter machines for rolling tobacco.
 - Manufacturers of punching machines for the tobacco industry.
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