



G00002

Abstract**Method and apparatus for generating smoke aerosols**

In the method of generating smoke aerosols for designing,
5 checking or demonstrating fire alarm devices a combustion
material is pyrolyzed, with the result that the fire
aerosols are released. The combustion material is
pyrolyzed by means of a combustible gas and an artificial
fire is generated with an adjustable heat output, wherein
10 for generating different fire aerosols and/or different
combustion gases the combustion material is freely
selectable within wide limits. With the artificial fire a
defined and reproducible hot gas stream (H) is generated,
which conveys the fire aerosols in an upward direction.

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The apparatus for effecting the method comprises a smoke
generator (1) and a gas supply (11). The smoke generator
(1) comprises a receptacle (6) for receiving the combustion
material, which receptacle is disposed above a burner (5)
20 connected to the gas supply (11), and means (9) of aligning
and stabilizing the flame of the burner (5).

(Figure 1)