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(54) **FILTER SYSTEM FOR LIGHT SOURCE**

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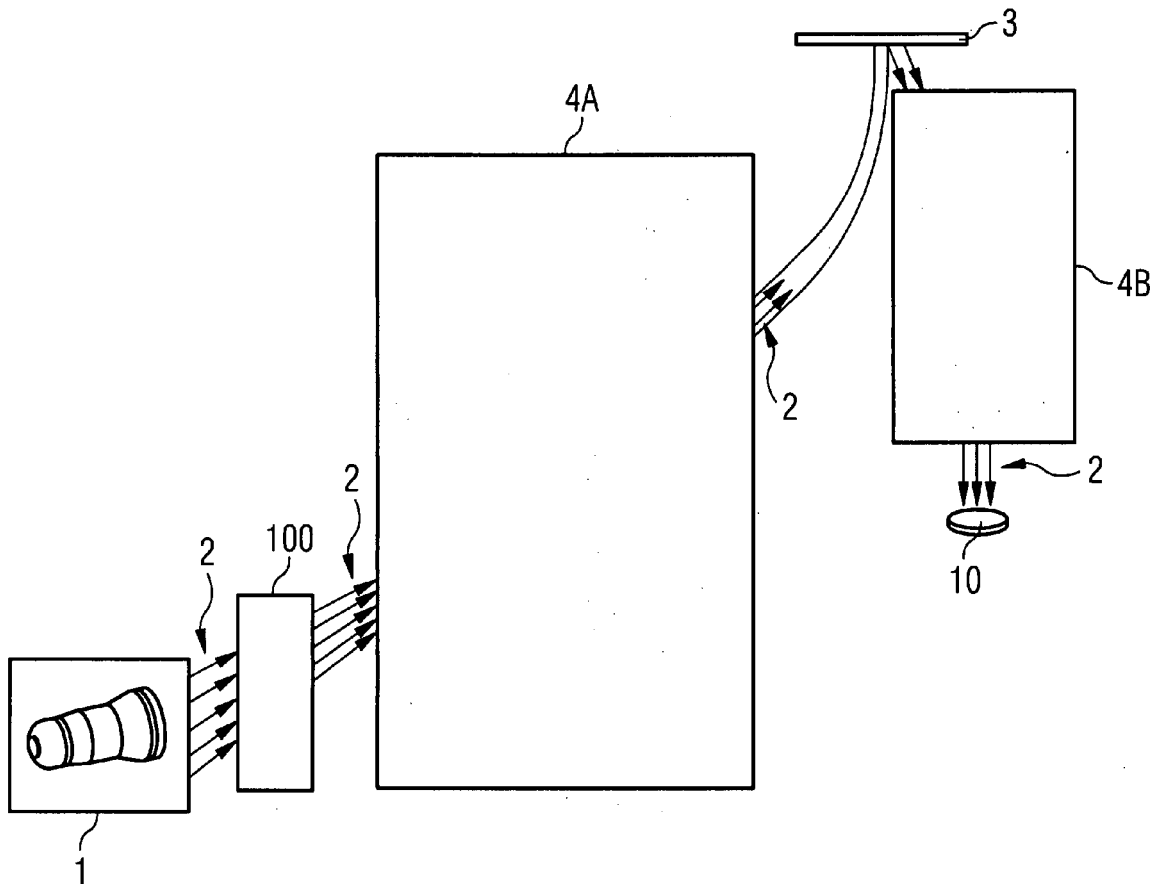
(57) **ABSTRACT**

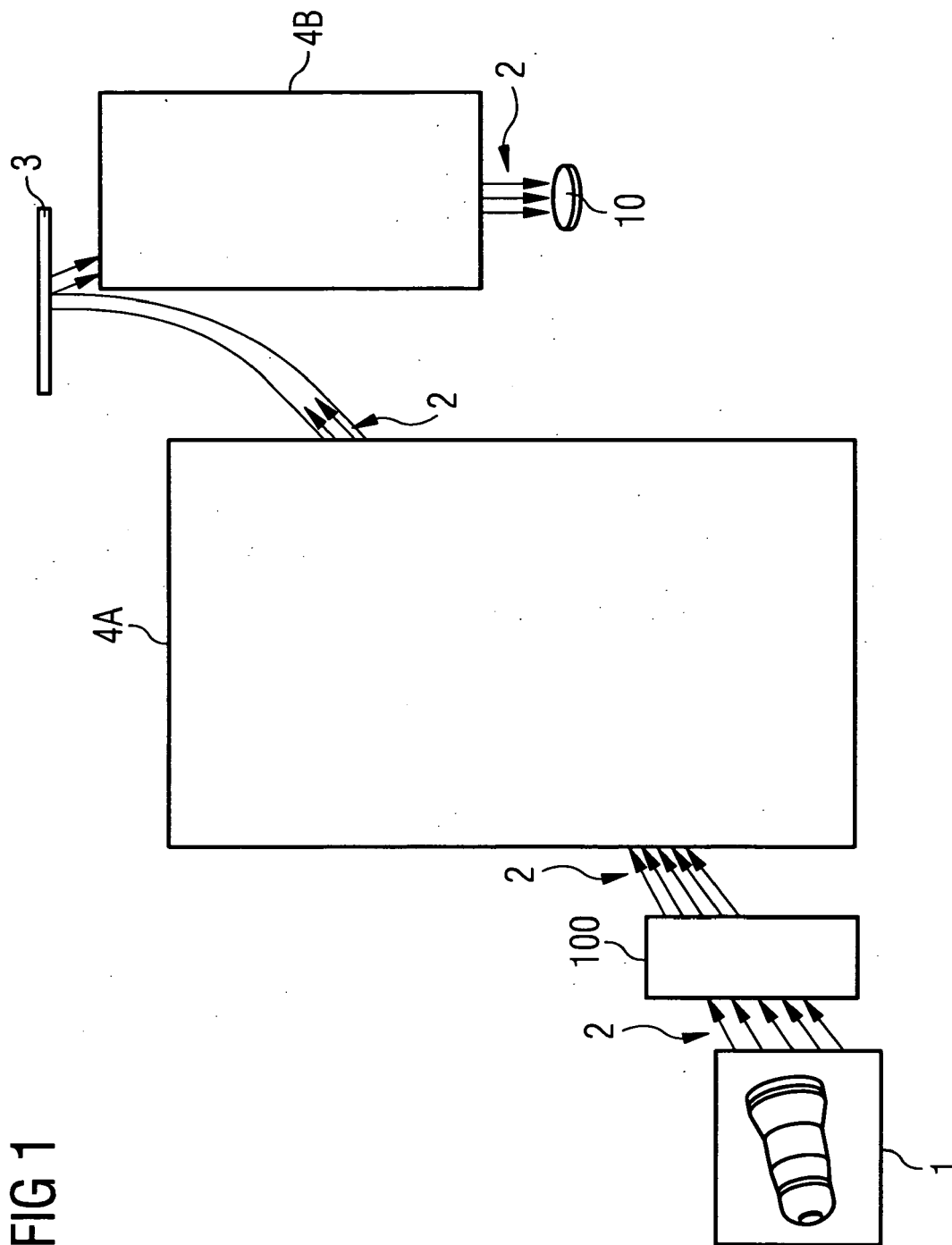
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The invention is concerned with a filter system for a light source in a lithography process for the production of semiconductor devices with a flowing absorber gas for at least one wavelength ( $\lambda$ ) in the range between 20 to 250 nm, the flowing absorber gas intersecting the light path emitted by the light source. Furthermore, the invention is concerned with a lithography apparatus for processing semiconductor substrates, the use of a filter system, a method for filtering light and a semiconductor device manufactured by the method.

(21) Appl. No.: **11/513,502**

(22) Filed: **Aug. 31, 2006**





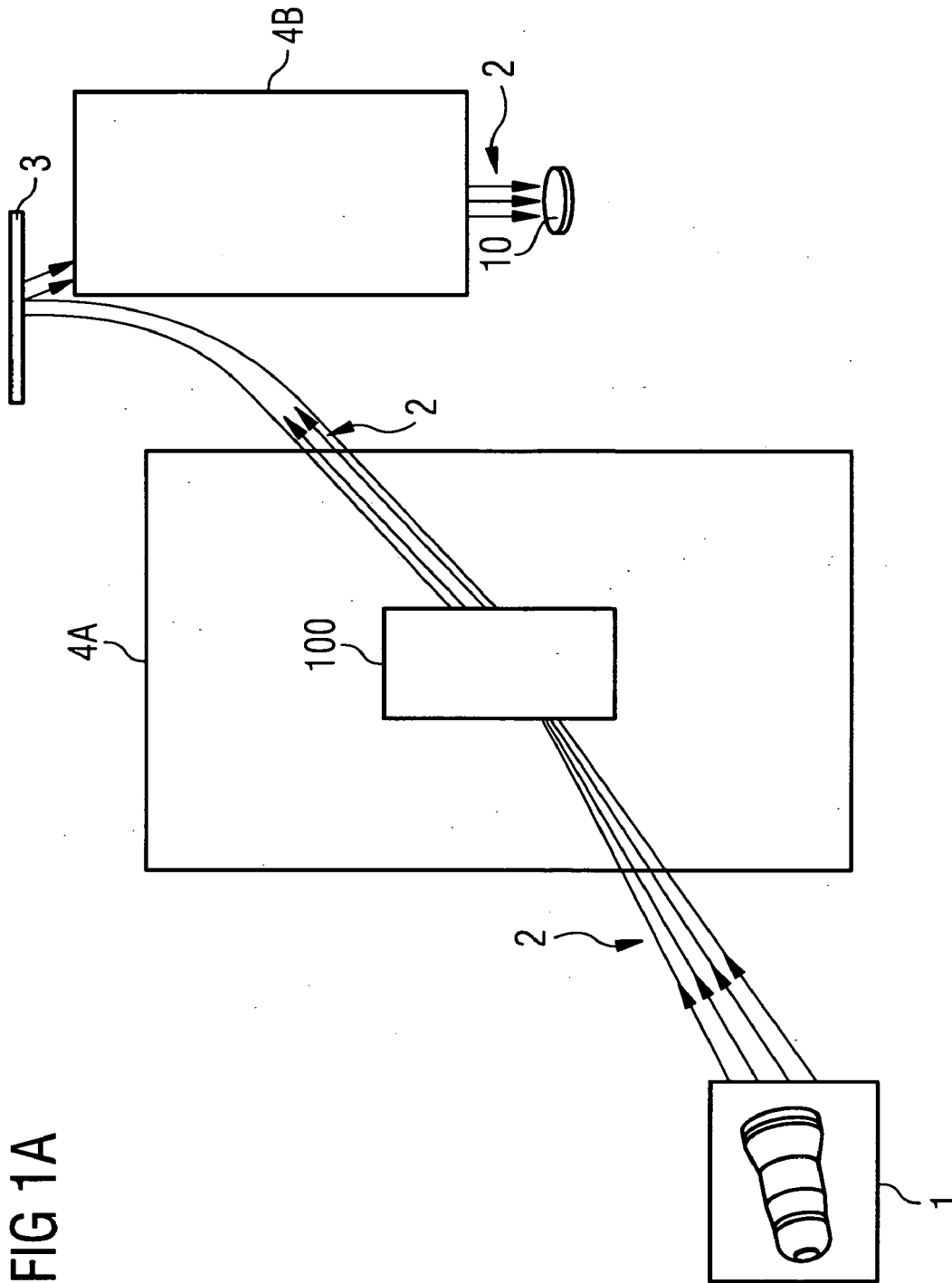


FIG 1A

FIG 2

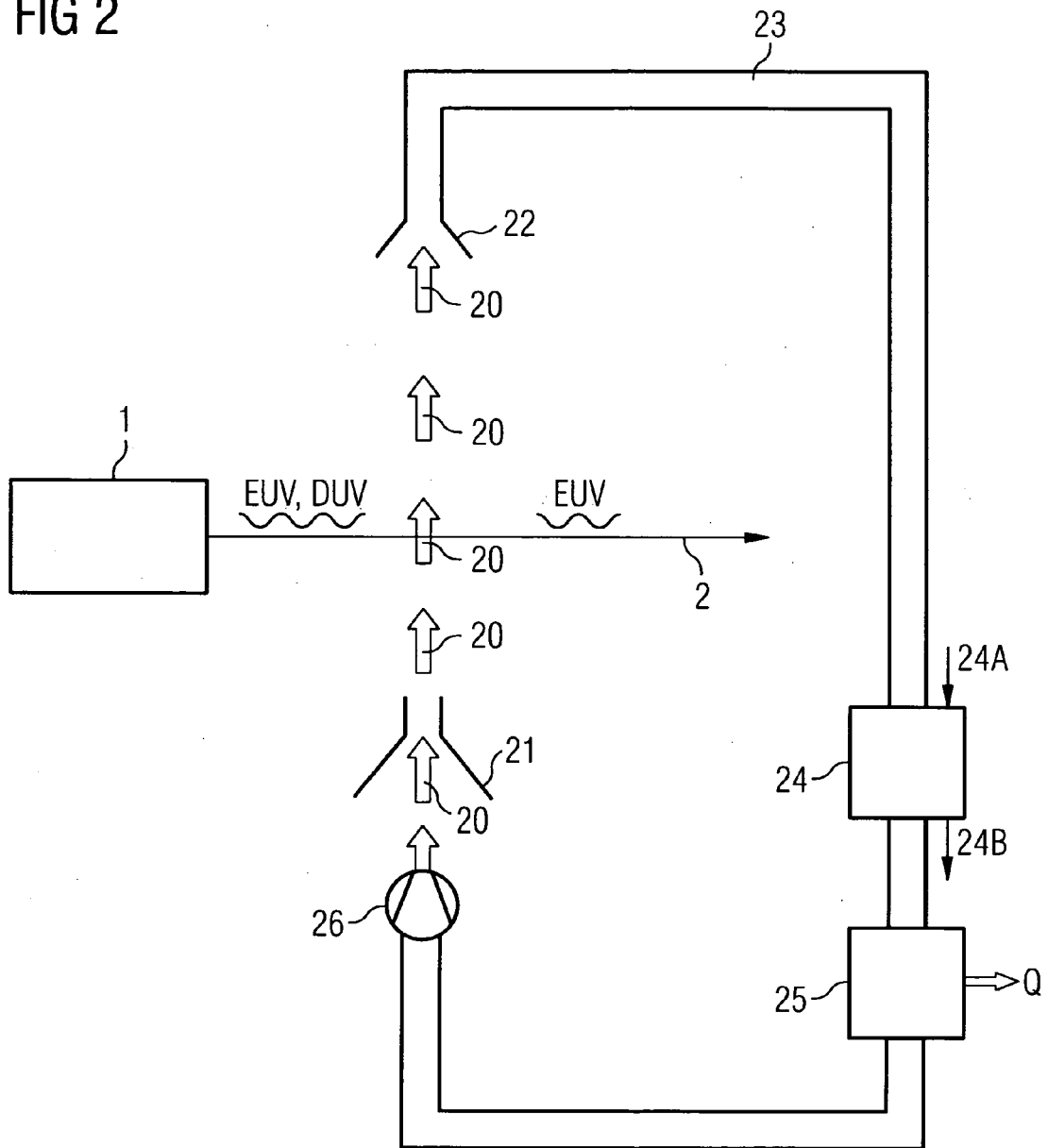
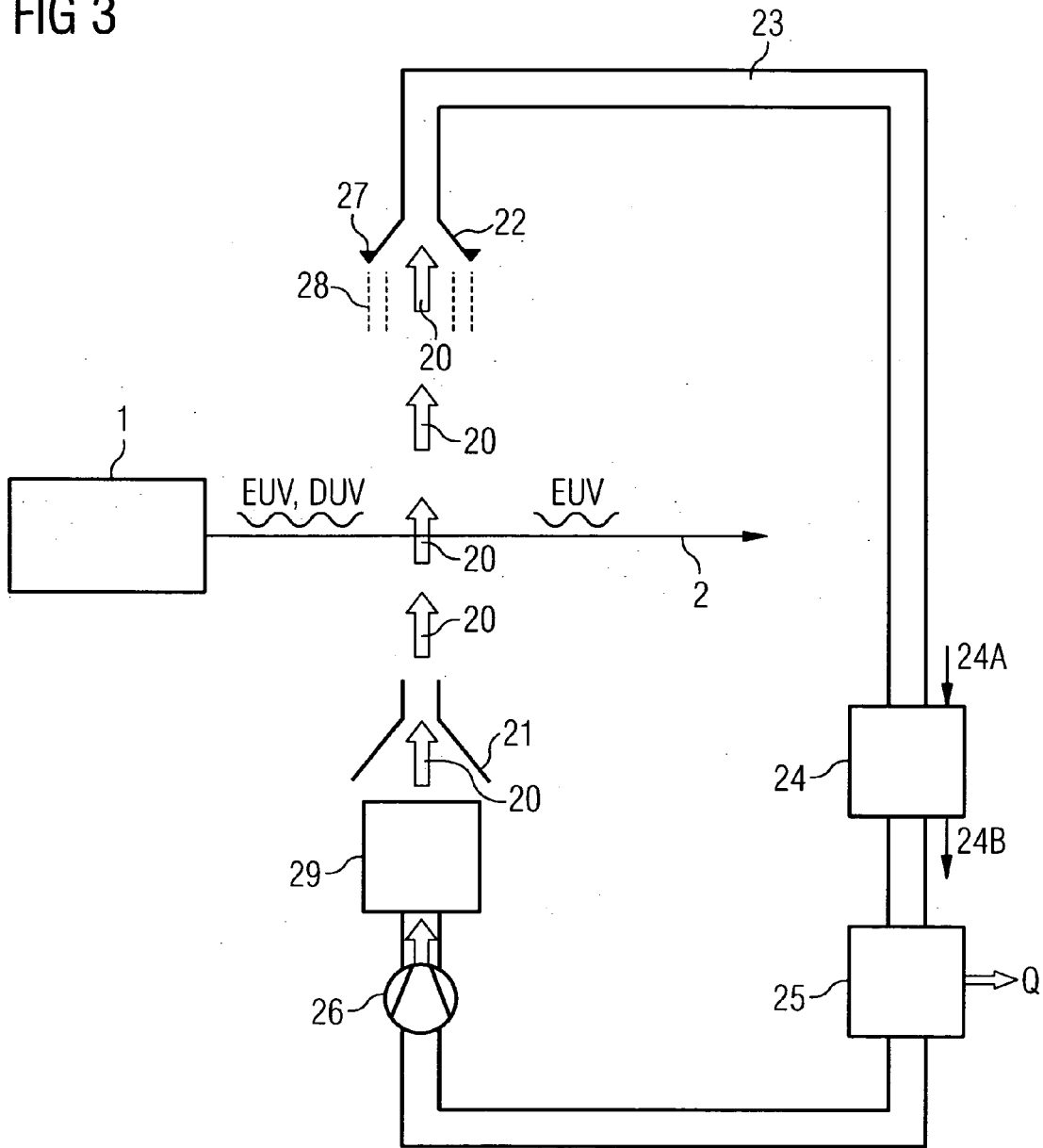


FIG 3



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