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Reimer et al.

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(54) **ILLUMINATION ARRANGEMENT AND SURGICAL MICROSCOPE INCORPORATING THE SAME**

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See application file for complete search history.

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(57) **ABSTRACT**

An illumination arrangement includes illumination optics defining an optical axis and a light source for generating at least one illumination beam path for illuminating an object field at a specific illumination angle with a viewing beam path. At least one mirror is provided in the illumination beam path for deflecting light from the light source and the mirror has a longitudinal extent along the optical axis. A light-emitting surface region of the light source is variable (x) perpendicular to the optical axis without movable components. The illumination optics are embodied in such a way for obtaining a desired illumination that an illumination pupil is imaged within the longitudinal extent of the mirror.

(52) **U.S. Cl.**

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12 Claims, 6 Drawing Sheets

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