

Title (en)
SYSTEM AND METHOD FOR ENDOSCOPICALLY APPLYING AND MONITORING PHOTODYNAMIC THERAPY AND PHOTODYNAMIC DIAGNOSIS

Title (de)
SYSTEM UND VERFAHREN ZUR ENDOSKOPALEN ANWENDUNGUND ÜBERWACHUNG EINER PHOTODYNAMISCHEN THERAPIE UND ZUR PHOTODYNAMISCHEN DIAGNOSE

Title (fr)
SYSTEME ET METHODE D'APPLICATION ET DE CONTROLE ENDOSCOPIQUE D'UNE THERAPIE PHOTODYNAMIQUE ET D'UN DIAGNOSTIC PHOTODYNAMIQUE

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Application
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Abstract (en)
[origin: WO9922814A1] A system for endoscopically irradiating, and concurrently monitoring light during photodynamic treatment of an internal treatment site, the system including at least one light source (102) for providing an illuminating light for illumination of the treatment site, a fluorescence inducing light for inducing a fluorescence light emission from the treatment site, and a treating light for activating a photodynamic chemical present at the treatment site; an illumination light channel for tunneling the illumination, and fluorescence (116, 118) inducing lights from the light source to the treatment site; a working light channel for tunneling the treating light from the light source to the treatment site (122, 126, 128); an imaging light channel for retrieving light from the treatment site (132, 134); and a light analysis arrangement (136) being optically coupled to the imaging light channel for analyzing the light retrieved from the treatment site, the light analysis arrangement including a first camera for providing a reflected light image of the treatment site (138); a second camera for providing a fluorescence light image of the treatment site (140); a spectrometer (144) for providing a spectrum of at least part of the light retrieved from the treatment site; and at least one display (146, 146a-146c) for displaying the reflected light image, the fluorescent light image, and the spectrum.

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