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(54) Title: MULTIMODAL MICROSCOPIC SYSTEMS

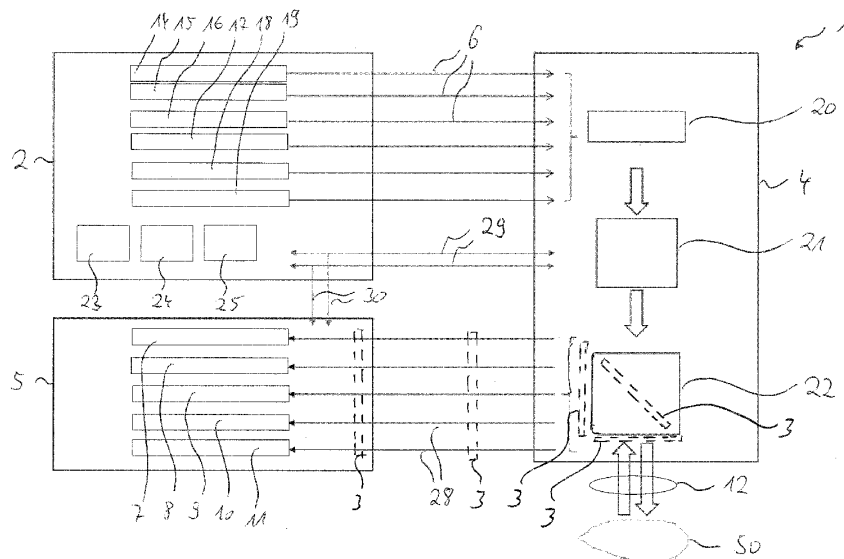


FIG. 1

(57) Abstract: Disclosed are multimodal microscopic systems (1). In a first aspect, the system (1) comprises at least a first base unit (2) comprising at least one electrical and/or optical base component (14, 15, 16, 17, 18, 19), at least one scan unit (4) comprising at least one scan component (20, 21, 22) and at least one detection unit (5) comprising at least one detection component (7, 8, 9, 10, 11). The at least one base component (14, 15, 16, 17, 18, 19), the at least one scan component (20, 21, 22) and the at least one detection component (7, 8, 9, 10, 11) are operatively coupled to each other such that at least one base components (14, 15, 16, 17, 18, 19) and/or at least one scan components (20, 21, 22) and/or at least one detection components (7, 8, 9, 10, 11) is jointly useable for more than one modality. In further aspects, the system (1) comprises a beam combiner (26) which is arranged to superimpose the electromagnetic waves emitted by the electromagnetic wave sources (14, 15, 16, 17, 18, 19) and/or a beam splitter (27) which is arranged to split the

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