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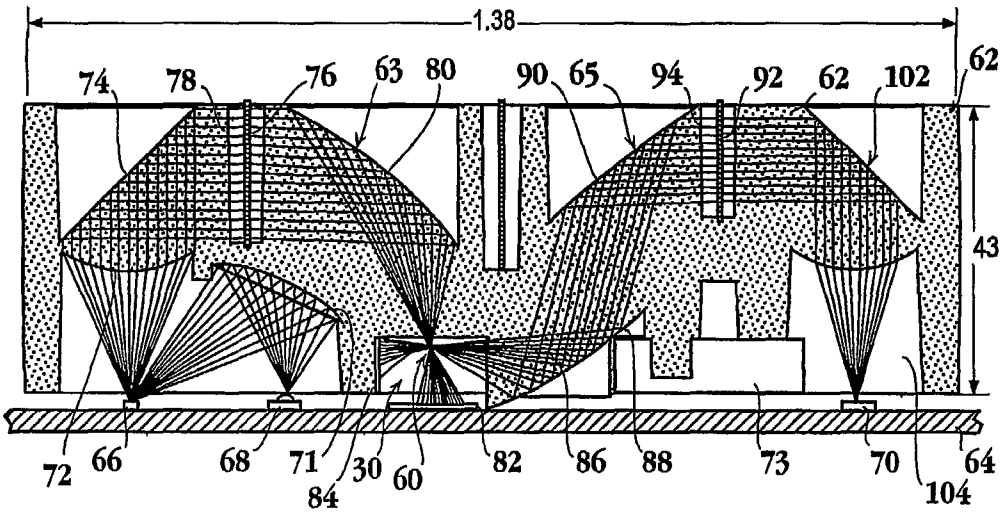
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(54) Title: MULTILENS OPTICAL ASSEMBLY FOR A DIAGNOSTIC DEVICE



(57) Abstract: A diagnostics apparatus for detecting fluorescence events related to the presence of an analyte in a sample is disclosed. The apparatus includes a housing, a source of excitation light (66) and a photodetector (70), and a unitary multi-surface optical module (62). The optical module (62) is integrally formed and composed of an upstream (63) portion having a focusing optical surface (80) for directing excitation light from the light source (66) to a focal region (60) within an analyte-detection zone (30) in the apparatus, and a downstream portion (65) having a second focusing powered optical surface and at least one reflecting surface for directing fluorescence-emission light produced by fluorescence events within the detection zone (30), in a direction substantially normal to the path of the excitation light onto the photodetector (70). The optical module (62) is adaptable to a variety of assay formats, including multiple-sample, sample-array, and disposable-cartridge formats.

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