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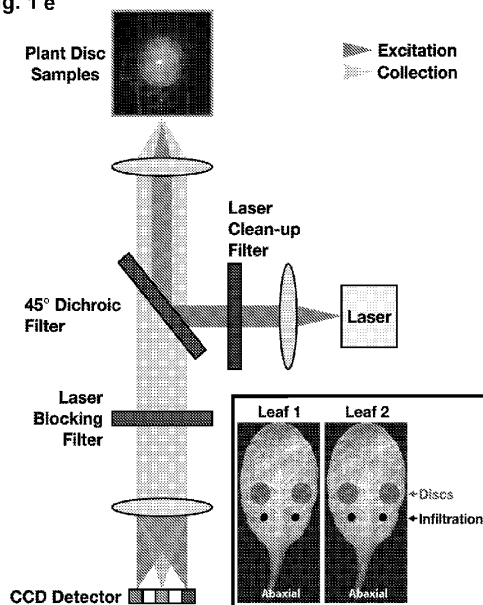
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(54) **Title:** REAL TIME DETECTION AND QUANTITATION OF PLANT INNATE IMMUNITY RESPONSE USING RAMAN SPECTROSCOPY

Fig. 1 e



(57) **Abstract:** The present invention relates to the use of Raman spectroscopy for the real time detection and quantitation of innate immunity response in plants. More specifically, the present invention provides Raman spectroscopy as a tool for rapid, non-invasive, and early detection and quantitation of plant innate immune response.

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