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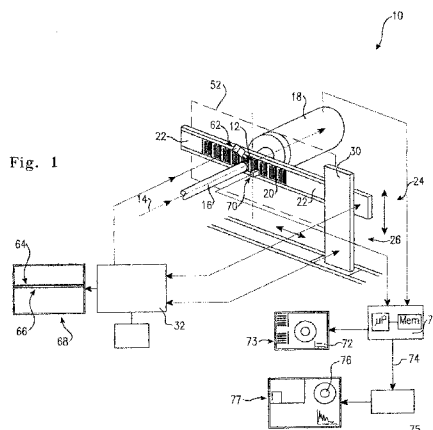
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(54) Title: SAMPLE ANALYSIS SYSTEM



(57) Abstract: A hair sample analysis system; said system comprising multiple sample arrays located within a container, an automated drive mechanism for removing an individual array from said container and for urging a hair sample of said sample array to a first approximate location, and a monitoring and control system, for adjustment of said drive mechanism to locate said hair sample into substantial coincidence with an X-ray diffraction beam; locating said sample in substantial coincidence with said X-ray diffraction beam; irradiating said sample with said beam for a predetermined time; receiving and storing for analysis data derived from said step of irradiating said hair sample; repeating said steps for a consecutive one of said hair samples from said sample array; returning said sample array to its original location in said container and removing another array from said sample container and repeating said steps for consecutive arrays.

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