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- (54) **Title:** METHODS FOR IDENTIFYING AGENTS WITH DESIRED BIOLOGICAL ACTIVITY

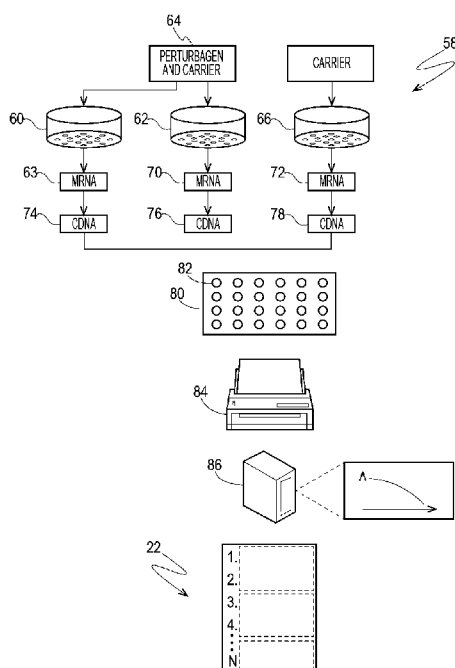


Fig. 4

(57) **Abstract:** Provided are methods, systems and apparatus for identifying agents with desired biological activity. Specifically, the methods, systems, and apparatus identify functional relationships between multiple agents and/or between one or more agents and a condition of interest. Data of multiple experimental batches are normalized, batch effects accounted for, and the adjusted data used to create a projection matrix or function. The projection matrix is used to project the data into a projection space, in which the distance between a query agent or a query condition and various candidate agents may be determined.



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