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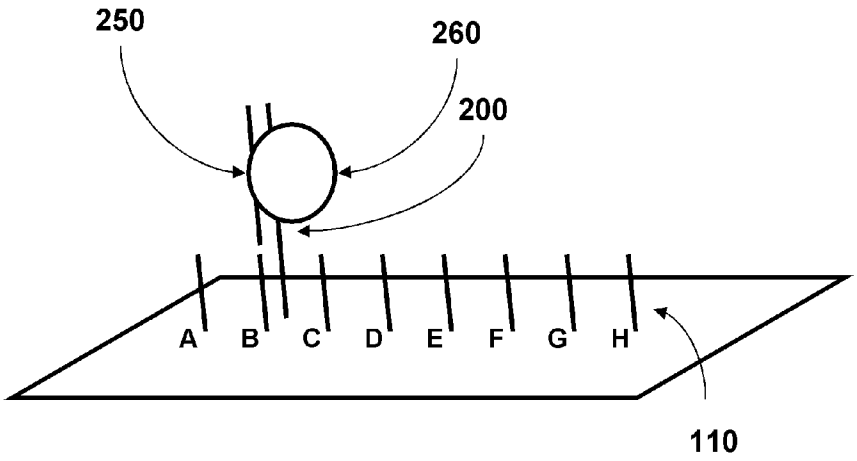
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(54) Title: MICROARRAY SYSTEMS AND METHODS FOR IDENTIFYING DNA-BINDING PROTEINS

Fig. 3C




(57) Abstract: Disclosed are methods for identifying double-stranded nucleic acid protein binding sites and double-stranded nucleic acid binding proteins. The method can include contacting a sample with at least one partially double-stranded nucleic acid probe under conditions that permit binding of double-stranded binding proteins and partially double-stranded nucleic acid probes. In particular examples, the partially double-stranded nucleic acid probes include a first portion of single-stranded nucleic acid at least about 15 nucleotides in length with a unique index sequence and a second portion of double-stranded nucleic acid greater than about 8 base pairs in length with a potential binding site for a double-stranded nucleic acid binding protein. The protein bound partially double-stranded nucleic acid probe can then be isolated and detected by hybridization to a nucleic acid indexing probe. Also disclosed are kits and devices for carrying out the methods.

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