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(54) **METHODS, SYSTEMS, AND COMPOSITIONS FOR COUNTING NUCLEIC ACID MOLECULES**

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CPC ***C12Q 1/6837*** (2013.01); ***C12Q 1/6853*** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

Compositions and methods, systems, and kits for detecting and quantifying variations in numbers of molecules, particularly variations in gene dosage, e.g., due to gene duplication, or to variations from the normal euploid complement of chromosomes, e.g., trisomy of one or more chromosomes that are normally found in diploid pairs, without digital sequencing.

23 Claims, 67 Drawing Sheets

Specification includes a Sequence Listing.