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(71) Applicant: THERMO FINNIGAN LLC [US/US]; 355 River Oaks Parkway, San Jose, CA 95134 (US).

(72) Inventors: YIP, Ping, F.; 15 Fairfield Street, Salem, MA 01970 (US). STEPHENSON, JR., James, L.; 11941 Straight-a Way Lane, Raleigh, NC 27613 (US). GVOZDYAK, Oksana; 182 North Road, Bedford, MA 01730 (US).

(74) Agent: COONEY, Thomas, F.; Thermo Fisher Scientific Inc., 355 River Oaks Parkway, San Jose, CA 95134 (US).

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(54) Title: METHODS FOR DATA-DEPENDENT MASS SPECTROMETRY OF MIXED BIOMOLECULAR ANALYTES

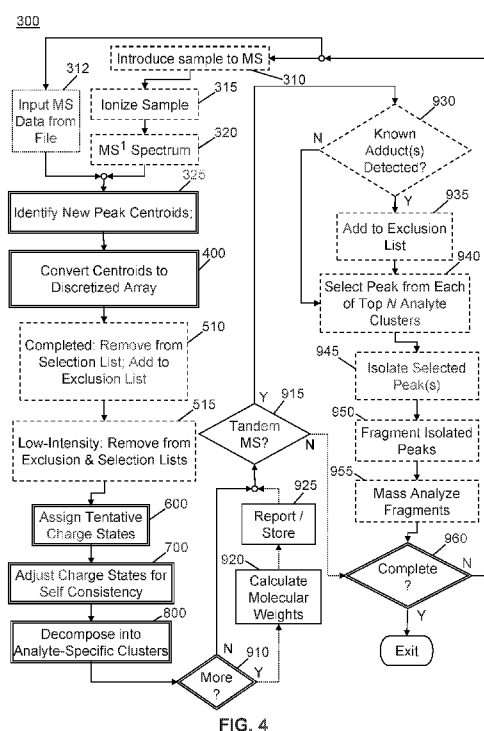


FIG. 4

(57) Abstract: A method for mass spectral analysis of a sample containing a plurality of biomolecule species comprises: (a) mass analyzing a plurality of first-generation ion species generated from a sample portion; (b) automatically recognizing, for each of at least one biomolecule species, a respective subset of m/z ratios corresponding to respective first-generation ion species generated from the each biomolecule species; (c) selecting, from each recognized subset, a single representative m/z ratio; (d) isolating a sub-population of ions having each representative m/z ratio from ions having other m/z ratios; and (e) fragmenting each isolated sub-population of ions so as to generate second-generation ion species.



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