



TECHNOLOGY AVAILABLE FOR LICENSING

Field-Release Mass Spectrometry

US Patent #5,952,654

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Details about the Invention:

The invention consists of a novel, non-matrix form of time-of-flight mass spectrometry with the potential to analyze macromolecular to cellular biosubstances. In brief, the analyte substances are placed on a sharp tip and launched via electrostatic energy in a time-of-flight mass spectrometer. For example, a long ladder of dideoxy sequencing products could be sequenced in a flash by this technique. Proteomes can be detected more broadly and efficiently. Even intact viruses and bacteria can be measured.

Benefits of the Invention:

Advantages:

- High speed
- High accuracy
- High sensitivity
- Low cost

Uses:

- DNA sequencing/SNP analysis
- Proteomics/protein diagnostics
- Bio-threat agent detection
- Infectious disease testing

The Bottom Line:

This is a new technique with the potential to rapidly detect nucleic acids, proteins, viruses and bacteria. This technique increases the range, efficiency, speed and sensitivity of biosubstance detection using mass spectrometry.

For More Information:

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