

# AMBIENT INFRARED LASER ABLATION MASS SPECTROMETRY (AIRLAB-MS) WITH PLUME CAPTURE BY CONTINUOUS FLOW SOLVENT PROBE

Tech ID: 24239 / UC Case 2014-210-0

## PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,805,921	10/31/2017	2014-210

## BRIEF DESCRIPTION

UC Berkeley researchers and others developed a new experimental setup for spatially resolved ambient infrared laser ablation mass spectrometry (AIRLAB-MS) that uses an infrared microscope with an infinity-corrected reflective objective and a continuous flow solvent probe coupled to a Fourier transform ion cyclotron resonance mass spectrometer is described.

## SUGGESTED USES

- » laser ablation and mass spectrometry
- » devices for plume capture of laser ablated samples for mass spectrometry and spectroscopy

## ADVANTAGES

The transfer efficiency is significantly higher than values reported for similar techniques.

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Full Signal Utilization In Charge Detection Mass Spectrometry
- ▶ Apodization Specific Peak Fitting In Charge Detection Mass Spectrometry
- ▶ Multiplex Charge Detection Mass Spectrometry
- ▶ Sequential Pass Express Charge Detection Mass Analyzer
- ▶ Aerosol Ionization For Charge Detection Mass Spectrometry Ion Mobility Analysis

## CONTACT

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## INVENTORS

- » Williams, Evan R.

## OTHER INFORMATION

### CATEGORIZED AS

- » **Research Tools**
- » Other
- » **Sensors & Instrumentation**
- » Analytical
- » Scientific/Research

### RELATED CASES

2014-210-0