



## System And Method For Spectral Computed Tomography Using Single Polychromatic X-Ray Spectrum Acquisition

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**WARF: P200043US01**

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### The Invention

A system and method for material decomposition of a single energy spectrum x-ray dataset includes accessing the single energy spectrum x-ray dataset, receiving a userselection of a desired energy for decomposition, and decomposing the single energy spectrum x-ray dataset into material bases as a linear combination of energy dependence function of selected basis materials and the corresponding spatial dependence material bases images.

### Additional Information

#### For More Information About the Inventors

- [Guang-Hong Chen](#)

#### Tech Fields

- [Medical Imaging : CT](#)

For current licensing status, please contact Jeanine Burmania at [jeanine@warf.org](mailto:jeanine@warf.org) or 608-960-9846