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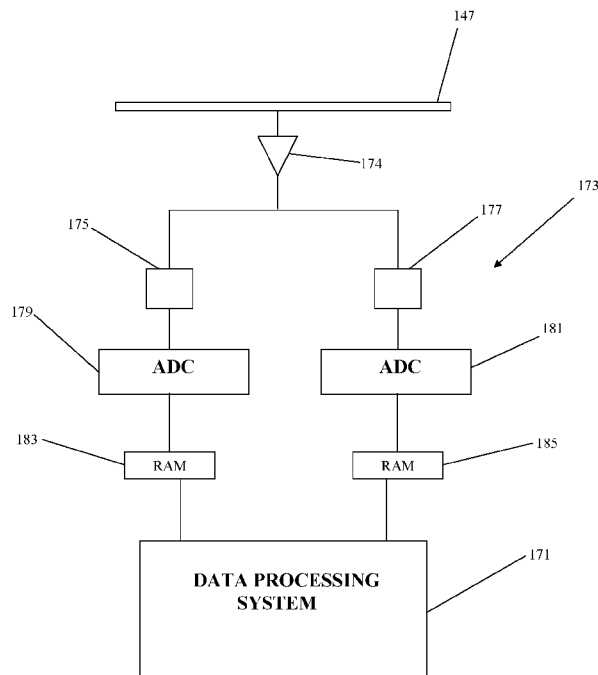
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(54) Title: STRATEGIC DYNAMIC RANGE CONTROL FOR TIME-OF-FLIGHT MASS SPECTROMETRY

FIG. 2



(57) Abstract: A mass spectrometer of the type useful in mass cytometry includes an ion detector. A digitizing system for converting analog signals from the ion detector includes two analog-to-digital converters. The analog-to-digital converters are configured to provide an increased dynamic range for a targeted period while limiting the amount of data generated.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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