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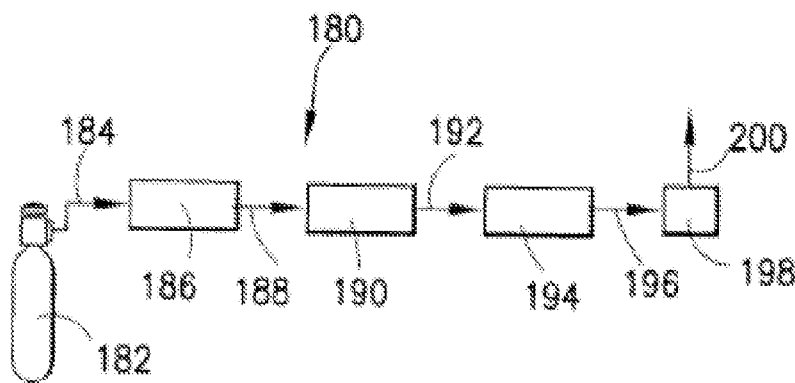
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(54) Title: ISOTOPICALLY-ENRICHED BORON-CONTAINING COMPOUNDS, AND METHODS OF MAKING AND USING SAME

**FIG. 1**

(57) Abstract: An isotopically-enriched, boron-containing compound comprising two or more boron atoms and at least one fluorine atom, wherein at least one of the boron atoms contains a desired isotope of boron in a concentration or ratio greater than a natural abundance concentration or ratio thereof. The compound may have a chemical formula of B_2F_4 . Synthesis methods for such compounds, and ion implantation methods using such compounds, are described, as well as storage and dispensing vessels in which the isotopically-enriched, boron-containing compound is advantageously contained for subsequent dispensing use.



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