

[54] METHOD FOR SEPARATING ISOTOPES FROM GASEOUS MIXTURES

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[57] ABSTRACT

To separate isotopes from a gaseous mixture containing isotopes and a chemical reaction partner, the reaction between the partner and the isotope to be separated can be directed by a laser beam having a narrow band of wave lengths molecularly exciting the isotope to be separated. To maximize such an effect, the gaseous mixture is held inside of a laser cavity chamber with the cavity chamber providing at both ends with completely reflecting end plates, the laser being operated to form a resonating wave which travels back and forth through the mixture.

2 Claims, 2 Drawing Figures

