

Title (en)

A process and an apparatus for fractionating gas mixtures.

Title (de)

Verfahren und Vorrichtung zur Fraktionierung von Gasmischungen.

Title (fr)

Procédé et dispositif pour fractionner des mélanges de gaz.

Publication

**EP 0000521 A1 19790207 (EN)**

Application

**EP 78100397 A 19780714**

Priority

US 81663977 A 19770718

Abstract (en)

A process and an apparatus for fractionating gas mixtures by adsorbing a first gas from a mixture thereof with a second gas, to reduce the concentration of the first gas in the mixture to below a desired maximum concentration, in which the adsorption cycle is timed according to the rate of fill through an orifice of a space of predetermined volume by withdrawing a portion of effluent gas, feeding such effluent gas portion into a space of predetermined volume through an adjustable orifice, accumulating the withdrawn effluent gas in the space, and discontinuing the adsorption cycle when the volume and/or pressure of accumulated effluent gas in the space reaches or exceeds a predetermined minimum, thereby making it possible to control the cycling independently of any external control or power source.

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IPC 8 full level

**B01D 53/04** (2006.01)

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Citation (search report)

[A] US 3659399 A 19720502 - KAUER GEORGE C JR, et al

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