

SEPARATION OF CF_4 AND C_2F_6 FROM A PERFLUOROCOMPOUND MIXTURE

ABSTRACT OF THE DISCLOSURE

A process for separating at least one of CF_4 and C_2F_6 from a gas. The process includes the steps of:

- (a) contacting a gas mixture comprising (i) at least
5 one of CF_4 and C_2F_6 , (ii) at least one of NF_3 , CHF_3 , and N_2 ,
and (iii) SF_6 with a membrane at conditions effective to
obtain a retentate stream rich in SF_6 and at least one of
 CF_4 and C_2F_6 , and a permeate stream rich in at least one of
 NF_3 , CHF_3 , and N_2 ; and
10 (b) contacting the retentate stream with an adsorbent
at conditions effective to adsorb SF_6 and produce a product
stream rich in at least one of CF_4 and C_2F_6 .

FIGURE 1