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[Continued on next page]

- (54) **Title:** AZEOTROPIC AND AZEOTROPE-LIKE COMPOSITIONS INVOLVING CERTAIN HALOOLEFINS AND USES THEREOF

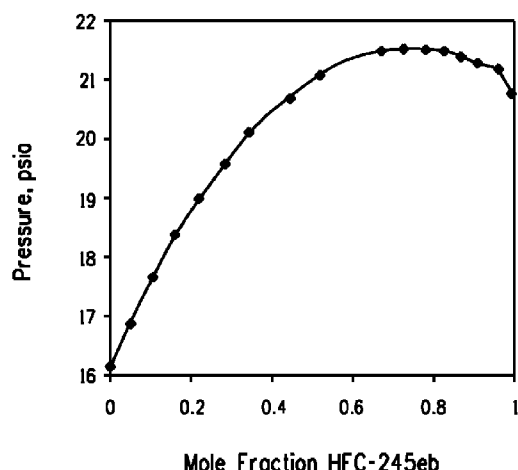


FIG. 1

- (57) **Abstract:** Azeotropic or azeotrope-like compositions are disclosed. The azeotropic or azeotrope-like compositions are mixtures of (A) a compound of the formula $\text{CF}_3\text{CX}=\text{CHR}_a$ where X is H or F and R_a is CF_3CF_2 , CF_3 or Cl , provided that (i) when X is F, R_a is Cl , (ii) when R_a is CF_3CF_2 or Cl , the compound of formula $\text{CF}_3\text{CX}=\text{CHR}_a$ is the E configurational isomer, and (iii) when R_a is CF_3 , the compound of formula $\text{CF}_3\text{CX}=\text{CHR}_a$ is the Z configurational isomer; and (B) a compound of the formula CF_3R_b where R_b is $\text{CH}_2\text{FCH}_2\text{F}$ or $\text{CH}=\text{CHCF}_3$, provided that when R_b is $\text{CH}=\text{CHCF}_3$, X is F and the compound of formula CF_3R_b is the Z configurational isomer. Also disclosed are processes for using such azeotropic or azeotrope-like compositions for preparing a thermoplastic or thermoset foam, for producing refrigeration, for producing an aerosol product and for extinguishing and suppressing a fire; and as blowing agents, solvents, heat transfer media and dielectrics.

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