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(54) Title: A METHOD FOR PREPARING LITHIUM HEXAFLUOROPHOSPHATE

(57) Abstract: The present disclosure relates to a process for preparing high purity Lithium Hexafluorophosphate (LiPF₆), comprising the steps of: (a) reacting high purified anhydrous hydrogen fluoride (AHF) gas with solid phosphorous pentachloride to produce a mixture of pure phosphorous pentafluoride and hydrogen chloride gas, (b) reacting highly purified lithium fluoride dissolved in AHF solution with phosphorous pentafluoride and hydrogen chloride gas mixture obtained in step (a) to obtain LiPF₆ mother liquor, which is LiPF₆ dissolved in AHF; crystallizing the LiPF₆ from the mother liquor in static crystallizer, separating the mother liquor, drying the product to remove HF; followed by drying and crushing of the crystals of LiPF₆ to obtain LiPF₆ powder.

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