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ELECTRODE AND ELECTROLYTE FOR USE IN PREPARATION
OF NITROGEN TRIFLUORIDE GAS, AND PREPARATION METHOD
OF NITROGEN TRIFLUORIDE GAS BY USE OF THEM

ABSTRACT

The present invention discloses an electrode for electrolyzing an electrolyte comprising an ammonium fluoride (NH_4F) - hydrogen fluoride (HF) - containing molten salt and having a composition ratio ($\text{HF}/\text{NH}_4\text{F}$) of 1 to 3 to prepare a nitrogen trifluoride (NF_3) gas and an electrolyte for use in the preparation of NF_3 gas, and a preparation method of the NF_3 gas by the use of the electrode and the electrolyte. The electrode comprises nickel having 0.07 wt% or less of Si content and containing a transition metal other than nickel. The electrolyte also contains a transition metal other than nickel.

(FIG. 1)



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