

Title (en)

METHOD FOR PRODUCING AN AMMONIUM-BASED SOLID, PARTICULATE COMPOSITION COMPRISING AN ADDITIVE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER FESTEN TEILCHENFÖRMIGEN ZUSAMMENSETZUNG AUF AMMONIUMBASIS MIT EINEM ADDITIV

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE COMPOSITION PARTICULAIRE SOLIDE À BASE D'AMMONIUM COMPRENANT UN ADDITIF

Publication

EP 4263470 A1 20231025 (EN)

Application

EP 21839223 A 20211221

Priority

- EP 20216179 A 20201221
- EP 2021086935 W 20211221

Abstract (en)

[origin: EP4015488A1] A method is disclosed for producing an ammonium-based solid, particulate composition comprising an additive in a plant comprising a liquid section and a solid section comprising a particulation unit and an effluent gas treatment unit comprising a scrubber, a scrubber solution storage container and optionally a scrubber evaporator, the method comprising the steps of:(a) preparing a melt comprising an ammonium salt in the liquid section of the plant;(b) particulating the melt prepared in step (a) in the particulation unit thereby obtaining an ammonium-based solid, particulate composition and an effluent gas comprising ammonia;(c) preparing an aqueous scrubbing solution;(d) treating the effluent gas comprising ammonia from the particulation unit with the aqueous scrubbing solution prepared in step (c) in the scrubber of the effluent gas treatment unit thereby producing a scrubber solution;(e) storing the scrubber solution produced in step d) in the scrubber solution storage of the effluent gas treatment unit; and(f) optionally, concentrating the scrubber solution from the scrubber solution storage container in the scrubber evaporator thereby obtaining a concentrated scrubber solution;(g) adding the scrubber solution obtained from step e) or f) to the melt comprising an ammonium salt;wherein an additive is added in solid form to any one or more of the aqueous scrubbing solution prepared in step c), the scrubber solution in the scrubber solution storage, or the scrubber concentrator.

IPC 8 full level

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CPC (source: EP)

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