

A method for the granulation of nitric fertilizers consisting in granulation at the temperature below the crystallization temperature by 20 – 25 °C of 96 – 98 % fusion cake by multi-time spraying of nitrogen fertilizers fusion cake with nozzles on the surface of fine granules of free-falling circulation flow recycle being returned for the repeated granulation after cooling and classification in the form of vertical curtain with the depth of not less than 50 mm. A mechanism for realizing the method for the granulation of nitric fertilizers which contains rectangular body, air intake nipples, nipple for incorporation of recycle and nipple for outlet of granulated product in the body is made in the form of vertical multiple-section apparatus and contains lower section equipped with two air intake nipples coupled by circulation dosing screw, screw of unloading large pieces of agglomerate; vertical shaft, on both sides of which there are disposed collectors for feeding fusion cake with nozzles for spraying: vertical one extendable upwards, transport airway; precipitation chamber containing connecting pipes connected to the vertical shaft and vertical airway, string sieve limiting granules growth, scraper chain conveyor for purification of strings, rotary drum with band flexible panel wound thereon, flexible rubber apron.