

Title (en)
METHOD AND DEVICE FOR MULTI-STAGE VACUUM GENERATION DURING THE PRODUCTION OF POLYESTERS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR MEHRSTUFIGEN VAKUUMERZEUGUNG BEI DER POLYESTERHERSTELLUNG

Title (fr)
PROCEDE ET DISPOSITIF DE PRODUCTION DE VIDE EN PLUSIEURS ETAPES DANS LE CADRE DE LA PRODUCTION DE POLYESTERS

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Application
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Priority

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Abstract (en)
[origin: WO2006099895A1] The invention relates to a method and to a corresponding device for multi-stage vacuum generation during the production of polyesters or copolyesters by esterifying dicarboxylic acids and diols or by transesterifying dicarboxylic acid esters and diols in a number or reaction stages. The method is characterized by the following steps: 1. The vapors (1) are drawn from a final reactor and directly into a first jet nozzle (2) inside of which they are condensed; 2. The condensed vapors (1), together with a supplied propellant gas (3), form a vapor/operating steam mixture and are guided in a first injection condenser (4) in parallel flow with the injected diol (5); 3. The vapor/operating steam mixture is largely compressed by the injected diol (5) and on the walls of the first injection compressor (4) that are wetted by diol; 4. The polymers discharged from the first injection compressor (4) with the exiting diol (5) are separated out.

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