Title (en)

PROCESSES FOR THE PRODUCTION OF POLYACRYLAMIDE PARTICLES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYACRYLAMID-TEILCHEN

Title (fr)

PROCEDES POUR LA PRODUCTION DE PARTICULES DE POLYACRYLAMIDE

Publication

EP 0879252 A1 19981125 (EN)

Application

EP 97902470 A 19970204

Priority

- GB 9700317 W 19970204
- GB 9602415 A 19960207

Abstract (en)

[origin: WO9729136A1] Processes are provided for production of substantially dry polyacrylamide powder in which levels of residual acrylamide monomer are significantly reduced. These processes are particularly suitable for use on an industrial or plant scale. One process comprises providing aqueous polyacrylamide gel particles contaminated with acrylamide monomer, applying amidase enzyme to the aqueous gel particles whilst they are at a temperature of from 50 to 95 DEG C and substantially immediately passing the aqueous gel particles to a drying stage and subjecting them in that stage to a temperature at least 60 DEG C. The final levels of residual acrylamide can be even further reduced with the introduction of a short holding stage of not more than 30 minutes at a temperature of 20 to 70 DEG C before passing the particles to drying.

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C08F 6/00; C08L 33/26

IPC 8 full level

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