Title (en)

PROCESS FOR CONTROLLING THE ELECTROLYTE CONTENT OF AQUEOUS RESIN DISPERSIONS

Publication

EP 0172541 B1 19890524 (DE)

Application

EP 85110298 A 19850817

Priority

DE 3431276 A 19840825

Abstract (en)

[origin: ES8605008A1] In controlling the electrolyte content of aq. resin dispersions by membrane filtration, opt. continuously, and with inclusion of known measuring, control and/or metering instruments, (a) semipermeable filter modules with average pore width less than the average micelle size of the organic components of the dispersion, inner dia. of 0.05-1.0 cm and length of the filter module of 0.1-10m/10 l of bath vol., are contacted with the dispersions, (b) water is passed through the filter module and is led in a separate closed cycle; a hydrostatic pressure of 40-500 mbars is exerted on the outer membrane surface, turned towards the dispersion, by sucking or pumping the water, (c) water and foreign ions to be removed are withdrawn from the dispersion and are conc. in the aq. circulating phase, and (d) the loss of water and desired electrolytes in the aq. resin dispersion are compensated by addn. of each component.

[origin: ES8605008A1] In controlling the electrolyte content of aq. resin dispersions by membrane filtration, opt. continuously, and with inclusion of known measuring, control and/or metering instruments, (a) semipermeable filter modules with average pore width less than the average micelle size of the organic components of the dispersion, inner dia. of 0.05-1.0 cm and length of the filter module of 0.1-10m/10 l of bath vol., are contacted with the dispersions, (b) water is passed through the filter module and is led in a separate closed cycle a hydrostatic pressure of 40-500 mbars is exerted on the outer membrane surface, turned towards the dispersion, by sucking or pumping the water, (c) water and foreign ions to be removed are withdrawn from the dispersion and are conc. in the aq. circulating phase, and (d) the loss of water and desired electrolytes in the aq. resin dispersion are compensated by addn. of each component.

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CPC (source: EP US)

C25D 13/24 (2013.01 - EP US)

Citation (examination)

Ullmanns Encyklopädie der technischen Chemie, 4. Auflage (1978), S. 515, 516, 528-531

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