

Title (en)
Process for controlling the electrolyte content of aqueous resin dispersions.

Title (de)
Verfahren zur Steuerung des Elektrolytgehaltes wässriger Harzdispersionen.

Title (fr)
Procédé pour régler la teneur en électrolytes de dispersions aqueuses de résine.

Publication
EP 0172541 A1 19860226 (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surface, turned towards the dispersion, by sucking or pumping the water, (c) water and foreign ions to be removed are withdrawn from the dispersion and are conc.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surface, turned towards the dispersion, by sucking or pumping the water, (c) water and foreign ions to be removed are withdrawn from the dispersion and are conc.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.

Abstract (de)
Die Erfindung betrifft ein Verfahren zur Steuerung des Elektrolytgehaltes wässriger Harzdispersionen mittels Membranfiltration, das dadurch gekennzeichnet ist, daß man Filtermodule mit durchschnittlichen Porenweiten, die geringer sind als die durchschnittliche Mizellengröße der organischen Komponenten der wässrigen Harzdispersionen mit den wässrigen Dispersionen in Kontakt bringt, die Filtermodule mit Wasser durchströmt, wobei man das Wasser in einem separaten geschlossenen Kreislauf führt und durch Saugen oder Pumpen des Wassers einen hydrostatischen Druck auf die äußere, der Harzdispersion zugewandte Membranfläche erzeugt, den wässrigen Harzdispersionen Wasser einschließlich abzutrennender Fremdionen bis zu einem gewünschten Wert entzieht und in der wässrigen Umlaufphase anreichert und den Verlust an Wasser und erwünschten Elektrolyten in den wässrigen Harzdispersionen durch Zugabe der jeweiligen Komponenten ausgleicht.

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