

Title (en)

Process for continuous production of nonwoven highly water-absorbent complex.

Title (de)

Verfahren zum kontinuierlichen Herstellen von stark wasserabsorbierenden, nichtgewobenen Komplexen.

Title (fr)

Procédé de production en continu de complexes non-tissés fortement hydrophiles.

Publication

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Application

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Priority

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Abstract (en)

The invention relates to a process for the continuous production of nonwoven highly water-absorbent complex characterized in adding in advance to an aqueous monomer solution a crosslinking agent and a oxidizing polymerization initiating agent having a latent activity, and after impregnating a continuous nonwoven fibrous web with this solution, causing a rapid polymerization reaction by adding an activator to this web so as to form a water-swelling polymer in this web, thereby continuously forming a nonwoven highly water-absorbent comple. As the radical polymerization initiator a peroxide e.g. hydrogen peroxide is used, and as the activator a water soluble reducing agent capable of forming a redox system with said peroxide, e.g. aniline or sodium sulfite is used.

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CPC (source: EP)

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Cited by

US5268229A; US10161080B2; DE4420088A1; DE4420088C3; US5723159A; US5733490A; US5855798A; US5972505A; US7338625B2; US6918981B2; US6872275B2; US7018497B2

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