

Title (en)
METHOD FOR OPTIMIZING THE ENERGY BALANCE IN FORMING UNITS IN MACHINES FOR PRODUCING FIBROUS WEBS AND FORMING UNIT

Title (de)
VERFAHREN ZUR OPTIMIERUNG DER ENERGIEBILANZ IN FORMIEREINHEITEN IN MASCHINEN ZUR HERSTELLUNG VON FASERSTOFFBAHNEN UND FORMIEREINHEIT

Title (fr)
PROCÉDÉ D'OPTIMISATION DU BILAN ÉNERGÉTIQUE DES UNITÉS DE FORMAGE DANS DES MACHINES DE FABRICATION DE BANDES DE MATIÈRES FIBREUSES, AINSI QU'UNITÉ DE FORMAGE

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Application
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Abstract (en)
[origin: WO2010010109A1] The invention relates to a method for optimizing the energy balance of a forming unit (1) in a machine for producing fibrous webs (F), in which a fiber suspension (FS), which is fed to the forming unit (1) by way of a material ramp (3) after the immobility point (IP) is reached, is passed through at least two de-watering devices (E2 through En) within a compression zone (VZ) and to a subsequent functional unit (6). The invention is characterized in that a setpoint value for a target dryness (X_{soll}-TG_{ziel}) to be set is predefined based on the existing de-watering elements (E1-En) as a function of a theoretical maximum achievable dryness (TG_{max}) under plant conditions in the area of the transition zone (17), said setpoint being selected such that it is less than the theoretical maximum achievable dryness (TG_{max}) but is equal to or greater than a required minimum dryness in the area of the transition zone (17), and that the target dryness (TG_{ziel}) is controlled by lowering the inlet dryness (TGE-ein) at one of the last de-watering devices (En) disposed in the direction of passage of the fiber suspension (FS) within the compression zone (VZ).

IPC 8 full level
D21G 9/00 (2006.01)

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D21F 1/52 (2013.01 - EP US); **D21F 3/10** (2013.01 - EP US); **D21F 9/003** (2013.01 - EP US); **D21G 9/0027** (2013.01 - EP US)

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