Title (en)

STRETCH BLOW FORMING METHOD AND BLOW FORMING PRESS

Title (de)

VERFAHREN ZUM STRECKBLASEN UND BLASFORMPRESSE

Title (fr)

PROCEDE DE FORMAGE PAR ETIRAGE ET PAR SOUFFLAGE, ET PRESSE DE FORMAGE PAR SOUFFLAGE

Publication

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Application

EP 96901685 A 19960219

Priority

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Abstract (en)

[origin: WO9625285A1] The invention proposes reaching the upper stage of the compressed blowing air adiabatically instead of isothermically, as previously, so enabling the entire blowing process to be carried out with the smallest possible amount of energy, and the greatest possible amount of energy to be recovered via a piston pump (14), for example, after blow forming. Preferably, for a first phase, low-pressure blowing air (N) of between 8 and 12 bars is generated isothermically in one or two stages and then adiabatically generated high-pressure blowing air (H) of between 30 and 40 bars reaches the actual pressing stage. Energy can also be recovered electrically by the same means as are used for driving the piston pump (14). A highly significant portion of energy is saved as a result of the upper stage of the compressed air stage being reached adiabatically and provided with a compressed air cushion at the rear of the piston and an additional high-pressure reservoir. Optimum use is made of the dynamic cycle of advance and return movements of the piston. All the sequences are co-ordinated by a central control system (ST).

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