

Title (en)  
SHEET CURLS REFORMER

Publication  
**EP 0341970 A3 19910206 (EN)**

Application  
**EP 89304666 A 19890509**

Priority  
JP 11165588 A 19880510

Abstract (en)  
[origin: EP0341970A2] The present invention provides an apparatus (13) for straightening sheet curls in which a wrap angle  $\theta$  is provided for a sheet (20) wound off from a winding roll (19) by applying a decurler bar (31) to the sheet (20) between two backup rolls (32), the apparatus (13) comprising a wrap angle adjusting device (34) for adjusting the wrap angle (  $\theta$  ) of the sheet (20) by relatively displacing the backup rolls (32) and the decurler bar (31), and a controller (16) which serves to calculate an optimum wrap angle (  $\theta$  ) in accordance with changes in the diameter of the winding roll (19) using the logical equation:  $\theta = A/D^{q/2} + B$  (wherein A, B, q are constants which are previously determined) from which the optimum wrap angle  $\theta$  can be calculated for the diameter D of the winding roll (19), and to control the wrap angle adjusting device (34) on the basis of the results of this calculation. In consequence, the present invention is able to realize automatization of straightening of curls with a simple configuration and in a rapid and highly precise manner.

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**B65H 23/34**

IPC 8 full level  
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Citation (search report)  
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• [A] EP 0062025 A1 19821006 - VOEST ALPINE AG [AT]  
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• [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 138 (M-145)(1016) 27 July 1982, & JP-A-57 62141 (KANZAKI SEISHI K.K.) 15 April 1982,

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