Title (en)

METHOD OF BENDING TUBES

Publication

EP 0401819 A3 19910626 (DE)

Application

EP 90110801 A 19900607

Priority

DE 3918714 A 19890608

Abstract (en)

[origin: EP0401819A2] The invention relates to a method for bending tubes made of a certain material and having a certain cross-sectional shape through a desired angle alpha i and with a certain bending radius (referred to below as bending objective), in which first of all a check is made as to whether an appropriate bending angle gamma i and a characteristic quantity, which is a measure of the springback of the tube in the case of the bending objective concerned, are already known for the bending objective. If the appropriate bending angle and the characteristic quantity are unknown, the tube is bent through an angle alpha i; the characteristic quantity which is a measure of the springback of the tube in the case of the bending objective concerned, and any bending angle gamma i, which is chosen so that, after the bending of the tube through gamma i = alpha i + epsilon i taking into account the springback, a bend through the desired angle alpha i remains, are determined and stored. The tube is bent further to the bending angle gamma i. If the same bending objective has already been accomplished, then, in the case of further identical bending objectives, the tube is bent through the bending angle gamma i. When these further identical bending objectives have been accomplished, the characteristic quantity is determined and compared to the already known characteristic quantity and, where required, a new appropriate bending angle is determined.

IPC 1-7

B21D 7/14; B21D 7/024

IPC 8 full level

B21D 7/14 (2006.01)

CPC (source: EP)

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Citation (search report)

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