

Title: Method for the high-speed production of a multi-layered tube

Abstract

5 Method for the high-speed production of a multi-layer tube (5) by means of a sheet metal forming machine, in which the multi-layer tube (5) comprises at least one first material layer (1) and a second material layer (2) adjacent to the first material layer, wherein the adjacent material layer is at least slightly bent, the material layers (1,2) to be combined into a multi-layer tube (5) are put on top of each other, wherein the
10 first material layer (1) as an overlying material layer is positioned on the adjacent material layer (2), a first connection (3a) between the overlying material layer (1) and the adjacent material layer (2) is provided by connecting the overlying layer (1) with the adjacent material layer (2) approximately along a first edge (4a) of the overlying material layer (1) or approximately along a line parallel thereto, a second
15 connection (3b) between the overlying material layer (1) and the adjacent material layer (2) is provided by connecting the overlying material layer (1) with the adjacent material layer (2) approximately along a second edge (4b) of the overlying material layer (1) or approximately along a line parallel thereto, the thus formed multi-layer material (1,2) is shaped into the multi-layer tube (5) by means of the sheet metal forming machine, wherein during this shaping process after a certain degree of
20 shaping the respective overlying material layer (1) which serves later as inner tube is compressed between both material layer connections (3a, 3b) in (partly) circumferential direction and thus is pressed into the respective adjacent material layer (2) which serves later as outer tube.

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(Fig. 3)