

Title (en)

METHOD OF MANUFACTURING BENT, DOUBLE-WALLED TUBE SECTIONS FOR WASTE GAS ARRANGEMENTS OF MOTOR VEHICLES AND TOOL FOR CARRYING OUT THE METHOD

Publication

EP 0163056 A3 19860326 (DE)

Application

EP 85103967 A 19850402

Priority

DE 3415077 A 19840421

Abstract (en)

[origin: EP0163056A2] A double-wall exhaust pipe is bent on a machine which includes a bending mandrel (7) whose dia. matches the size of the inner tube bore, and a second mandrel between the inner and outer tube walls (1,2). The inner mandrel is supported by a head (71) with a spherical surface and a spherical connection between them. The outer mandrel (8) is a sleeve, and is also connected to a supporting head, shaped as a short sleeve. The bending operation is carried out first at one end, then at the other one. The inner tube is also expanded at its ends. The supporting head for the outer mandrel has spherical side connections.

IPC 1-7

B21D 9/00

IPC 8 full level

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Citation (search report)

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