

Title (en)

Device for rigidly fixing a thin-walled hollow cylinder

Title (de)

Vorrichtung zum formstabilen Aufspannen eines dünnwandigen Hohlzylinders

Title (fr)

Dispositif pour fixer d'une manière rigide un cylindre creux à parois minces

Publication

EP 0622190 B1 19960306 (DE)

Application

EP 93106913 A 19930428

Priority

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Abstract (en)

[origin: EP0622190A1] A device for rigidly mounting a thin-walled hollow cylinder (10) comprises a hollow support cylinder (7) which is rotatable about its cylinder axis and over which the hollow cylinder (10) can be fitted. A pressurised fluid flows from the inside to the outside through the cylinder wall of the support cylinder (7). For this purpose there are a plurality of passage openings (19) in the cylinder wall of the support cylinder (7), which passage openings are arranged distributed both in the longitudinal and in the circumferential direction of the support cylinder (7). The outside diameter of the support cylinder (7) is selected such that the hollow cylinder (10) comes to rest thereon with only little clearance of some hundredths to tenths of a millimetre. If air is blown into the support cylinder (7), a flowing air cushion with very good centring and vibration-damping characteristics is produced in the thin annular space formed by the support cylinder (7) and hollow cylinder (10). <IMAGE>

IPC 1-7

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IPC 8 full level

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