

Title (en)
VALVE FOR METAL WIND INSTRUMENTS

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EP 0215282 B1 19900124 (DE)

Application
EP 86111023 A 19860809

Priority
DE 3533400 A 19850919

Abstract (en)
[origin: US4718318A] This invention relates to a flow path selector valve for use in wind instruments made of metal, such as a trumpet or a French horn. The valve comprises at least one pair of valve members, which consist each of a solid of revolution and are rotatably mounted on opposite sides of and in sliding and sealing contact with a centrally disposed, hollow bearing and drive block and integrally connected by a shaft. Each of said valve members consists of a cylinder, preferably of a cone, and contains a curved pipe section, which defines a flow path from an axial opening formed in the axially outer end portion of the valve member to a lateral opening formed in the shell of the valve member. The curved pipe sections are arranged in mirror symmetry in the valve members of said pair. Two air ducts are provided on opposite sides of the pair of valve members and devine flow paths differing in length. Each of said air ducts has two openings at opposite ends. The valve members are adapted to rotate in unison, preferably through 180 DEG , between a first position in which the lateral openings of both valve members register with the two openings of one of said air ducts and a second position, in which the lateral openings of both valve members register with the openings of the other air duct. The two open ends of each of said air ducts are defined in part by the centrally disposed bearing and drive block.

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G10D 9/04

IPC 8 full level
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