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ABSTRACT

METAL MOLD DEVICE FOR FORMING AN OPTICAL DISC

The present invention provides a metal mold device for forming an optical disc that is capable of uniformizing the metal mold temperature around a product cavity so as to be able to improve the dimensional accuracy of the optical disc. The metal mold device for forming an optical disc of the present invention is provided with a cavity block and a core block provided in opposition to the cavity block, and a product cavity is formed between the cavity block and the core block. Temperature adjusting passages through which coolant flows are provided in the cavity block and core block. Moreover, the distance from the surface of the product cavity to a communicating passage portion is increased in communicating passage portions where the cooling capacity per unit surface area of the product cavity is lowered by the temperature adjusting passages. As a result, the heat conductive distance is increased to lower the cooling capacity, thereby allowing the surface temperature of the product cavity to be optimally adjusted.



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