

Title (en)

PRESSURE INTENSIFIER DEVICE, DIECASTING MACHINE CASTING UNIT AND OPERATING METHOD

Title (de)

DRUCKÜBERSETZERVORRICHTUNG, DRUCKGIESSMASCHINEN-GIESSAGGREGAT UND BETRIEBSVERFAHREN

Title (fr)

DISPOSITIF AMPLIFICATEUR DE PRESSION, GROUPE DE COULÉE DE MACHINES DE COULÉE SOUS PRESSION ET PROCÉDÉ DE FONCTIONNEMENT

Publication

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Application

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Abstract (en)

[origin: WO2016128381A1] The invention relates to a pressure intensifier device for increasing the pressure in a pressurized fluid chamber of a piston/cylinder unit and to a casting unit provided therewith for a diecasting machine and also to an associated operating method. The pressure intensifier device has a pressure intensifier cylinder (10) and a pressure intensifier piston (11), which is guided axially movably in the cylinder, wherein the pressure intensifier cylinder has an outlet region (12), an inlet region (13) upstream of the outlet region and a piston guiding chamber (14), and the pressure intensifier piston has a piston part (11a), which is guided in the piston guiding chamber, and a piston rod (11b), which extends from the piston part to the inlet region, in a maximally retracted release position releases a fluid connection of the inlet region and the outer region and in a maximally advanced blocking position blocks this connection with a free end portion, with which it extends into the outlet region. Over a portion that can be passed by the free end portion of the piston rod during movement from the release position into the blocking position, the outlet region (12) has a free passage cross section for the free piston-rod end portion that is at least equal in size to a rod cross section of the free piston-rod end portion. Advantageously, a pressure intensifier inlet valve can be controlled independently of a pressure in the pressure fluid chamber of the piston/cylinder unit.

IPC 8 full level

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