

Title (en)

TWO-PIECE PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

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Title (fr)

PISTON EN DEUX PARTIES POUR MOTEUR À COMBUSTION INTERNE

Publication

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Application

EP 08801217 A 20080823

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Abstract (en)

[origin: WO2009033446A1] The invention relates to a two-piece piston (1) for an internal combustion engine, comprising a piston base body (2) and a ring element (3), which is soldered to the piston base body (2) by an upper solder connection (23) having the length b, which is disposed on the radial inside of a piston crown (4) formed at least partially by the ring element (3), and by a lower solder connection (24) having the length c, which is disposed radially outside on the top of a center part (9). In order to improve the strength of the solder connections (23) and (24) due to pressure and temperature-related deformations of the upper piston part, the ring element (3) has a peripheral, upper, thinner wall region (49) in the region of the piston crown (4) radially outside the upper solder connection (23) and further a peripheral, lower, thinner wall region (50) between the ring section (5) and the lower solder connection (24), wherein the thickness a and b of the thinner wall regions (49) and (50) has a lower value than the length b and c of the solder connections (23) and (24).

IPC 8 full level

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