

Title (en)
FORGING METHOD FOR PRODUCING A PISTON OR PISTON SHAFT

Title (de)
SCHMIEDEVERFAHREN ZUR HERSTELLUNG EINES KOLBENS BZW. KOLBENSCHAFTS

Title (fr)
PROCÉDÉ DE FORGEAGE POUR LA FABRICATION D'UN PISTON OU D'UNE JUPE DE PISTON

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Application
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Abstract (en)
[origin: WO2013000789A1] The invention relates to a forging method for producing a piston or piston shaft (1) that has two shaft walls (2) and two box walls (3) that connect the shaft walls (2), wherein - using a first forging die (5), the shaft walls (2) are forged at least slightly conically outwards and the box walls (3) are forged with a hub inner face (7) that is substantially parallel or slightly slanted outwards with respect to the piston axis (6) and with a hub outer face (8) that points at least slightly inwards towards the free end, - using a second forging die (9), the box walls (3) are shaped such that the box wall hub outer face (8) runs substantially parallel with respect to the piston axis (6) or outwards in a slanted manner and the box wall hub inner face (7) run outwards towards the free end, and - while the box walls (3) are being shaped by means of the second forging die (9), the shaft walls (2) are simultaneously drawn into a position that is approximately parallel with respect to the piston axis (6). In this manner, the piston shaft (1) can be produced in a comparatively inexpensive and weight-optimized manner.

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