

Title (en)

Flexible procedure for flow forming light alloy wheels and the relative machine

Title (de)

Flexibles Verfahren zur Herstellung von Leichtmetallrädern und Maschine dafür

Title (fr)

Procédé flexible pour la fabrication de roues en alliage léger et machine pour l'exécution de ce procédé

Publication

EP 1389501 A1 20040218 (EN)

Application

EP 02078368 A 20020815

Priority

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Abstract (en)

A flexible procedure for flow forming light alloy wheels wherein a preform (15) for a wheel (20, 120) is heated to about 400 DEG C and then subject to a rolling step, wherein the preform (15) is arranged blocked in equipment at one end (at 14) and bound to a mobile centring device (13) so as to be arranged on at least three profile rollers (12), after which it is subjected to the action of at least three casting rollers (16) capable of displacing radially towards a central rotational axis (22) which deform it to the final shape of wheel (20, 120). A machine for flow forming light alloy wheels wherein the aforementioned preform (15) for a wheel (20, 120) is treated comprising equipment (11) for supporting the preform (15) and at least three casting rollers (16) acting on the preform, in which the equipment (11) comprises a structure (19) carrying at least three profile rollers (12), arranged idly on shafts carried by the structure (19), a mobile centring device (13) for one end of the preform (15) and a blocker (14) of the end of the preform. <IMAGE>

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CPC (source: EP)

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Citation (search report)

- [A] DE 19545177 A1 19960808 - LEIFELD GMBH & CO [DE]
- [A] DE 3019723 A1 19811203 - WISSNER HANS J ING GRAD
- [A] DE 4442465 A1 19960530 - ASAHI TEC CORP [JP]

Cited by

EP2821158A1; JP6216894B1; DE102005025337A1; US11565300B2; US8042370B2; WO2017199425A1; WO2018228989A1; EP3351313B1

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