

Title (en)
A PROCESS AND A DEVICE FOR HOT WORKING.

Title (de)
VERFAHREN UND VORRICHTUNG ZUR WARMFORMGEBUNG.

Title (fr)
PROCEDE ET DISPOSITIF DE TRAVAIL A CHAUD.

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Application
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Abstract (en)
[origin: EP0033822A1] This invention is related to a device for hot working, preferably hot forming or welding of plastics. comprising electric heating means for said hot working and a control device for supplying electric heating power to said heating means. Said control device comprises a) power restricting means (3), b) means (9) for setting a maximum heating power, said setting means (9) being connected to a control unit (4) which controls said power restricting means, c) means (6) for measuring the heating temperature, said means being connected to said control unit (4), the signal from said temperature measuring means (6) acting through said control unit (4) on said power restricting means (3) to continuously or in a plurality of steps, preferably at least 3 steps, which preferably are essentially of equal size, restrict the heating power when exceeding a particular, pre-selected temperature, and d) pulse control means (8) arranged for maintaining the heating power switched-on for an adjustable period of time during at least one continuous pulse period. The invention is also related to a process for hot working, preferably hot forming or welding plastics, with the aid of electric heating means for said hot working, especially resistance heating means, in which the feeding of electric heating power to said heating means is controlled for at least one continuous pulse period.

Abstract (fr)
Un dispositif de travail a chaud, de preference de formage ou soudage a la chaleur de materiaux plastiques, comprend des moyens de chauffage electrique et un dispositif de commande pour alimenter en energie de chauffage electrique lesdits moyens de chauffage. Ce dispositif de commande comprend a) des moyens de reduction de puissance (3), b) des moyens (9) pour regler une energie de chauffage maximum, lesdits moyens de reglage (9) etant connectes a une unite de commande (4) qui commande lesdits moyens de limitation d'energie, c) des moyens (6) de mesure de la temperature de chauffage, lesdits moyens etant connectes a l'unite de commande (4), le signal provenant de ces moyens de mesure de temperature (6) agissant par l'intermediaire de l'unite de commande (4) sur les moyens de limitation de puissance (3) pour limiter l'energie de chauffage lorsque celle-ci depasse une temperature particuliere predeterminee, et ce de maniere continue ou en plusieurs etapes, de preference au moins trois etapes, de preference de meme ampleur, et d) des moyens de commande d'impulsion (8) pour maintenir l'alimentation de puissance de chauffage branchee pendant une periode de temps reglable pendant au moins une periode d'impulsion continue. Un procede de travail a chaud, de preference de formage ou soudage a la chaleur de materiaux plastiques, a l'aide de moyens de chauffage electrique pour ledit travail a chaud, specialement des moyens de resistance chauffante, ou l'alimentation de puissance de chauffage electrique auxdits moyens de chauffage est commandee pendant au moins une periode d'impulsion continue.

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