

Title (en)

Heat treatment of steel elements in fluidized beds.

Title (de)

Wärmebehandlung von Stahlgegenständen in Wirbelbetten.

Title (fr)

Traitement thermique d'éléments d'acier dans des lits fluidisés.

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Application

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Abstract (en)

In the heat treatment of steel wires (W) in a patenting operation, the wires from an austenitizing furnace (1) are first quenched in a fluidized bed (Q). This bed (Q) is fluidized by hot gases from the furnace (1) and is also provided with a cooling system (28). The wires are then passed into a second fluidized bed (TR-S) where transformation takes place. This bed is fluidized by an independent source of hot gas (21) and is divided into regions (13) along its length which have independently controllable auxiliary heaters (14). The temperatures in the zone (Q) and the region (13) along zone (TR-S) are controlled to give a fine pearlite microstructure in the wire.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

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