

Title (en)  
CONTINUOUS ANNEALER FOR WIRE

Title (de)  
DRAHTDURCHLAUFG LÜHE

Title (fr)  
DISPOSITIF DE RECUIT CONTINU DE FIL

Publication  
**EP 4288573 A1 20231213 (DE)**

Application  
**EP 22709205 A 20220201**

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Abstract (en)  
[origin: WO2022167424A1] The invention relates to a continuous annealer (1) for wire, for annealing and recrystallising a wire (12) in a continuous process. The continuous annealer (1) for wire comprises: two contact discs (2, 3) for contacting a first wire portion extending therebetween; an annealing zone (8) situated between the two contact discs (2, 3); and annealing means, in particular conductive or inductive annealing means, for annealing the first wire portion in the annealing zone (8), as a result of which a first partial recrystallisation process in the first wire portion takes place in the annealing zone (8). According to the invention, a recrystallisation zone (11) is situated downstream of the second contact disc (3), wherein, downstream of the annealing zone (8), the first wire portion passes through the recrystallisation zone (11) as the second wire portion, and a second partial recrystallisation process takes place in the second wire portion. The wire (12) is thus provided with the opportunity to recrystallise further after leaving the annealing zone (8) without further heating. By extending the recrystallisation time, the recrystallisation temperature can be reduced accordingly. As a result, the same degree of recrystallisation can be achieved overall with a significantly lower input of energy than when the wire (12) is cooled immediately after leaving the annealing zone (8).

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