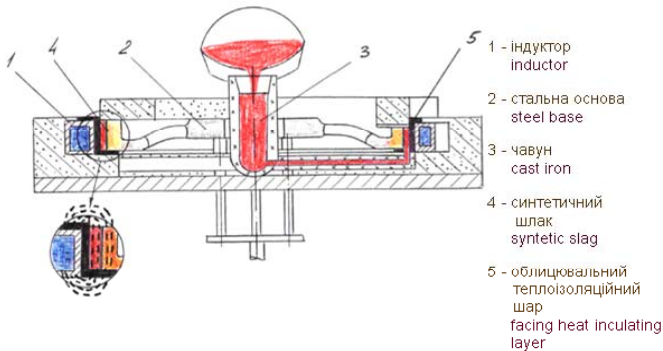




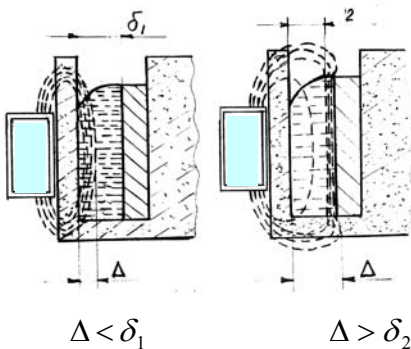
Bimetallic castings production at external influence of electromagnetic field



External influence of electromagnetic fields allow:

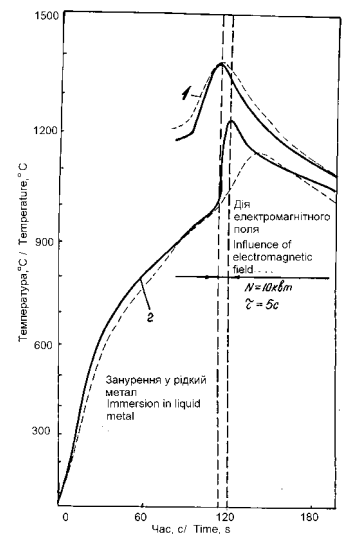
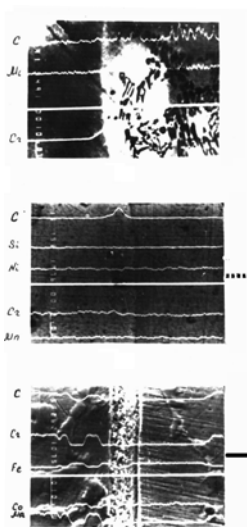
- intensification of diffusive ;
- reduce stressed state of bimetallic castings;
- produce products with difficult configuration.

Main regularities of heat-mass transfer processes under external influence of electromagnetic fields



$$Z_{cm} = \sqrt{2} \frac{\rho_{cm}}{\Delta_{cm}} \cdot K \quad \rho_{cm} = 10^{-6} \text{ Ом} \cdot \text{м}$$

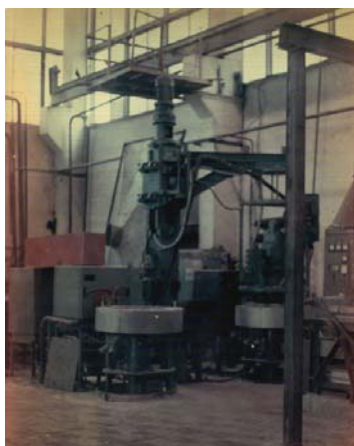
$$Z_{чyz} = \sqrt{2} \cdot \frac{\rho_{чyz}}{\Delta_{чyz}} \cdot K \quad \rho_{чyz} = 50 \cdot 10^{-5} \text{ Ом} \cdot \text{м}$$



Temperature change in liquid metal (1) and in metal basis (2)

-- without influence of electromagnetic field at crystallization process

— at influence of electromagnetic field during crystallization



Please forward your proposals and suggestions to:

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