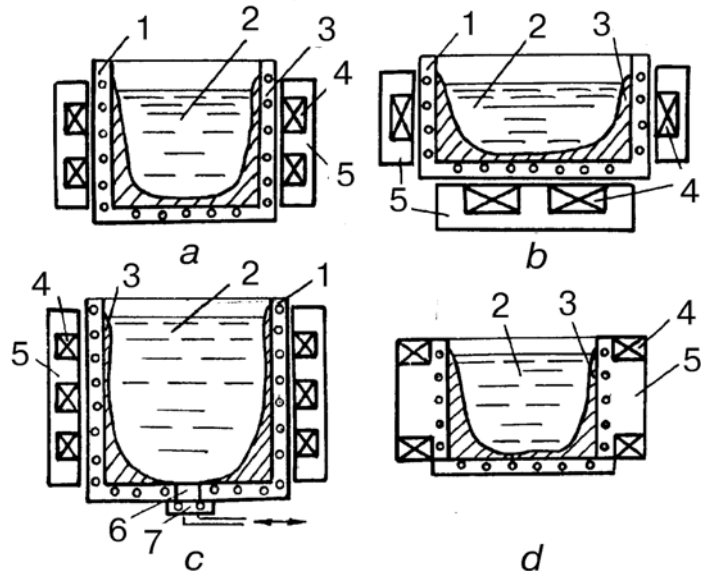




Electron-beam melting and casting technologies

The schemes of lining slag crucibles with EMM system:

- a) lateral system of EEM;
- b) bottom-lateral system of EEM;
- c) lateral system of EEM and bottom sink of melt;
- d) wall of reservoir forms by magnetic circuits of system EMM



1 - wall cooled by water; 2 - melt; 3 - lining slag; 4 - coil; 5

- magnetic circuit; 6 - pouring out hole in bottom of crucible; 7 - gate cooled by water.



Cast part from copper, superalloys, and Nb-, Ti-, Zr-based alloys.

The EBSM-EMS technologies allow to obtain cast parts from different metals and alloys by means of remelting of pure initial materials, as well as various wastes, like scrap, shavings, stampings, etc. 100% charge used may be the industrial wastes. Melting and casting techniques of copper, stainless steels, superal-

loys and alloys on the basis of Nb, Ti and Zr have been developed.

Please forward your proposals and suggestions to:

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