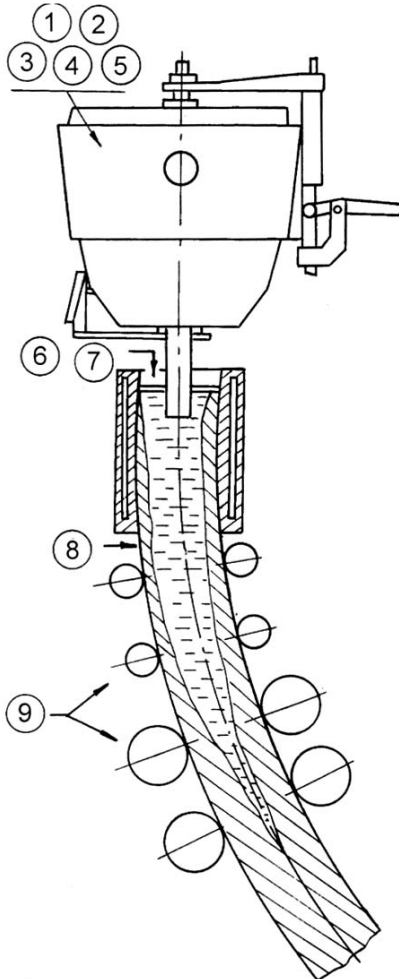


Improvement of technology of continuous pouring of steel

In intermediate ladle



1. To avoid stagnant temperature zones one can use multisectional ladle. Sections are made by partitions with the efficient placement of channels for flowing of metal.
2. The filtering of non-metal inclusions from steel thanks to placement the fireproof filters in ladle partitions.
3. The blowing of liquid steel by inert gas by placed in intermediate ladle fireproof lances.
4. Continuous measurement of steel temperature by light-conducting sensors.
5. Heating of metal by plasmotrones placed on ladle lid.

In crystallizer

6. Continuous determination of metal meniscus placement in crystallizer and thickness of covering slag by radar sensors.
7. Modifying of steel by alloys containing rare-earth metals which are fed as granules on the meniscus metal in crystallizer. Assimilation of rare-earth

metals achieves 60-70%.

In zone of repeated cooling of workpieces

8. Continuous measurement of temperature on the surfaces of workpieces by light-conducting sensors under crystallizer and on other sections.
9. The usage of high resistant bearings from developed by Institute materials for rollers stretching and supporting the workpiece.

Please forward your proposals and suggestions to:

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