

Pit-fire smelting furnace for obtaining liquid metal in foundry has a pit, transition channel with the bottom arranged as installed in cascade positions vessels, accumulating unit with burners, system of fuel conductors and air ducts. Overflow thresholds of the vessels are made of water-cooled elements, in the places of connection of the pit to transition channel in the side and the upper walls of the transition channel there are installed heat sinks – recuperators, and under the water-cooled fire-bars in the pit additional burners are installed.