

Invention relates to the methods for protection of rails against scalloping wear. The method for protection of rail against scalloping wear consists in that with the help of electrical discharge by two passages a strengthening composite coating is applied on the working surface of the rail head, in this case the first pass is performed by a steel electrode with modulus of normal elasticity equal to 2.38-3.22 MPa, and the next passage is performed by a steel electrode with modulus of normal elasticity 1.53-2.07 MPa. The application on the working surface of the rail head of strengthening composite coating is accomplished by two mosaic layers with their possible partial overlap. The application of strengthening composite coating is carried out with the continuity determined by the relationship of the modulus of normal strength of the material of the working surface of the rail head and modulus of normal elasticity of the material of steel electrode applying the composite strengthening coating. The said method for protection of rail allows to remove the factors of appearance of scalloping wear.