On One Nonlocal Contact Problem

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Annotation Nonlocal boundary value problem of a new type is considered. In order to solve the stated problem the iteration process is constructed, by means of which solution of initial problem is reduced to solution of Dirikhlet boundary value problem. Convergence of iteration process is studied and speed of convergence is determined. Using Harnack theorem, H.A. Schwarz lemma and principle of maximum existence and uniqueness of regular solution is proved.