We consider a class of dynamical system

\[ y = Ay + f(x) \]
\[ x = \sigma \]

where \( x \) is a scalar, \( y \) is an \( n \)-vector, \( A \) is \( n \times n \) constant matrix, \( f(x) \) is a scalar piecewise-linear function. We assume that the system (1) has an equilibrium point \( O \) at zero being a saddle-focus, i.e., the eigenvalues of the matrix

\[ a + f'(0)\sigma \]

satisfies Shilnikov’s conditions.

The main result is the explicitly given conditions for the homoclinic orbit of the saddle-focus \( O \), which covers two neighbor pieces of the function \( f \). (Received September 06, 2004)