

ABSTRACT**DEVICE FOR SIMULATING A RAILWAY SYSTEM AND ASSOCIATED
SIMULATION METHOD**

This device (100) includes: a member for storing a model (M) of the railway system, which associates a unitary component (C1 to C8) with each agent resulting from a functional breakdown of the railway system, each unitary component incorporating a model of the behavior of the associated agent, having input parameters (E1 to E8) and delivering output parameters (S1 to S8), the output parameters of a unitary component making up input parameters of another unitary component, each unitary component being characterized by a running period (p1 to p8) of the model that it incorporates; and a computing member (124), simulating an evolution over time of the model (M) of the railway system from an initial state, by running the behavior model of each unitary component with the running period that characterizes it, and using current values of the input parameters to calculate updated values of the output parameters.

Figure for abstract: Figure 1