

ABSTRACT

MACHINE LEARNING DEVICE, SUBSTRATE PROCESSING DEVICE,
TRAINED MODEL, MACHINE LEARNING METHOD, AND MACHINE
LEARNING PROGRAM

A device includes: state information acquisition unit that acquires state information including position of substrate in the device and elapsed time in each unit; action selection unit having prediction model that predicts value, in a certain state, to performing action whether to take out new substrate from the cassette and to which processing unit substrate is transferred, the action selection unit selecting one action based on the prediction model taking, as input, the acquired state information; instruction signal transmission unit that transmits instruction signal so as to perform the selected action; operation result acquisition unit that acquires operation result including number of substrates processed and waiting time; and prediction model update unit that calculates reward based on acquired operation result such that reward increases as the number of substrates processed increases and waiting time is short and that updates the prediction model based on the reward.

Figure 5