CLAIMS

1. A traveling vehicle system, comprising a traveling vehicle and a traveling track, in which the traveling vehicle is configured to travel the traveling track including a body configured to accommodate a traveling unit of the traveling vehicle and extending along a traveling path of the traveling vehicle and a power feeder disposed along an extending direction of the body and configured to supply electricity to the traveling unit, the traveling vehicle system comprising:

a working track disposed to be continuous to the traveling track, in which the working track forms an opening exposing at least a part of the traveling unit and does not have the power feeder; and

a moving mechanism configured to move the traveling vehicle along the working track, wherein the moving mechanism includes:

a pair of arms configured to sandwich the traveling vehicle from front and rear in a traveling direction,

a rotation driver configured to move the pair of arms between a position where the pair of arms sandwich the traveling vehicle and a position where the pair of arms retreat from the traveling vehicle, and

a movement driver configured to move the pair of arms in an extending direction of the traveling track.

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2. The traveling vehicle system according to claim 1, wherein

traveling tracks are connected to both ends of the working track, and

the moving mechanism is configured to move the traveling vehicle from one of the traveling tracks to the other traveling track.

3. The traveling vehicle system according to claim 1 or 2, further comprising a processing device configured to perform operation on at least a part of the traveling unit through the opening for the traveling vehicle positioned in the working track.

4. The traveling vehicle system according to claim 3, wherein the processing device is a suction device configured to suck adhering substances that adhere to at least a part of the traveling unit.

5. The traveling vehicle system according to any one of claims 1 to 4, wherein

the moving mechanism has a base plate and a moving plate disposed at the base plate to be movable in the traveling direction,

the pair of arms has a first arm and a second arm,

the first arm is disposed to be movable in the extending direction of the traveling track with respect to the moving plate, and

the second arm is provided so as to be unmovable in the extending direction of the traveling track with respect to the moving plate.

6. The traveling vehicle system according to any one of claims 1 to 5, wherein

the traveling unit has a running wheel configured to be braked at a time of no power feed and a running auxiliary wheel configured to rotate freely,

the working track has a lower support portion configured to support the traveling unit from below, and

the lower support portion is formed such that a first portion facing the running auxiliary wheel is positioned above a second portion facing the running wheel, in a vertical direction.