Claims

[Claim 1]

A conveyor apparatus for conveying articles, comprising: a plurality of traveling units that travel in series along a conveying path for the articles; and a plurality of article supports that have article support surfaces for supporting the articles and that are caused to travel on the conveying path by the respective traveling units,

the conveyor apparatus further comprising infilling members provided for the respective article supports, the infilling member filling a clearance between the article supports longitudinally adjacent to each other in the conveying path,

the infilling member being urged to the corresponding article support so as to be kept in contact with the article support,

wherein the infilling member is supported by the traveling unit that causes the article support to travel next to the corresponding article support of the infilling member in the conveying path,

wherein each of the traveling units includes an inclining unit capable of inclining the article support surface in a lateral direction of the conveying path from a horizontal plane by inclining, around a support inclination axis extending along the conveying path, the article support caused to travel by the traveling unit, and

the infilling member supported by the traveling unit is pivotally supported so as to freely incline around an infilling member inclination axis extending coaxially with the support inclination axis.

[Claim 2]

The conveyor apparatus according to claim 1, comprising restoring force members provided for the respective infilling members so as to generate a restoring force according to a displacement from a state of equilibrium,

wherein the infilling member is urged from below of the article support by the restoring force generated by the restoring force member.

[Claim 3]

The conveyor apparatus according to claim 2, wherein the plurality of restoring force members are provided for each of the infilling members, and at least two of the plurality of the restoring force members are disposed at separate positions in a direction crossing the conveying path.

[Claim 4]

The conveyor apparatus according to claim 1, wherein the infilling member is made of an elastic material, and the infilling member is urged to the article support by elasticity of the infilling member.

[Claim 5]

The conveyor apparatus according to any one of claims 1 to 4, comprising a vertical swinging shaft attached to each of infilling member, the vertical swinging shaft extending in a direction that crosses a conveying direction, and the infilling member is capable of vertically swinging around the vertical swinging shaft.