

Abstract

Folding Wheel and Portable Appliance

5 Disclosed are a folding wheel and a portable appliance. The folding wheel comprises: a wheel
body, wherein the wheel body includes two wheel plates that can be spliced with each other,
and a notched area is formed when the two wheel plates are spliced with each other; a first
connecting element disposed in the notched area; a first slide rail mechanism, at least part of
10 which is disposed on the first connecting element, and remaining parts of which are disposed
on respective wheel plates, wherein the first slide rail mechanism includes a first rail groove
and a first rotating shaft embedded in the first rail groove, such that the two wheel plates can
be spliced with or separated from each other along the first rail groove via the first rotating
shaft, and can be flipped relative to the first connecting element via the first rotating shaft;
and a securing mechanism configured to secure the two wheel plates in a mutually spliced
15 state. The folding wheel is foldable; for example, when the two wheel plates are pulled away
from each other, the two wheel plates slide away from each other along the first rail groove,
respectively; then the two wheel plates are flipped and folded towards a direction of
approaching to each other. The folded folding wheel has a smaller footprint, and the portable
appliance with the folding wheel facilitates a user to pack or carry.

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(Fig. 1)