

ABSTRACT
Air Spring and Bogie

5 An air spring includes: an outer cylindrical member; an inner cylindrical
member combined with the outer cylindrical member; a diaphragm which couples the
outer cylindrical member and the inner cylindrical member and forms an internal space
between the outer cylindrical member and the inner cylindrical member; a stopper
assembly which is disposed in the internal space to be pivotable on the inner cylindrical
10 member and can prevent the outer cylindrical member from moving toward the inner
cylindrical member more than necessary; and a pivoting mechanism which causes this
stopper assembly to pivot on the inner cylindrical member. The stopper assembly has
a stopper portion protruding towards the outer cylindrical member, and the outer
cylindrical member has as a set four or more protrusion portions provided at a position
15 to face the stopper portion and protruding toward the inner cylindrical member. Each
of the protrusion portions belonging to the set is disposed successively and also
different in height. Each of the protrusion portions belonging to the set is arranged
without having a protrusion portion belonging to the set smallest in height adjacent to a
protrusion portion belonging to the set largest in height.
[FIG. 1]