CLAIMS

1. A magnetic marker to be laid in or on a road, comprising:

a wireless tag having an antenna for transmitting or receiving electric waves for wireless communication, the wireless tag being retained in a main body forming a magnetism generation source; and

a protecting part which isolates the antenna of the wireless tag from water, wherein

the antenna includes waveguide parts made of a conductive material and a gap which is formed between any two of the waveguide parts arranged so as to be opposed to each other, and

the protecting part is configured so that a distance for isolating the antenna from water is longer than a distance of the gap.

2. A magnetic marker to be laid in or on a road, comprising:

a wireless tag having an antenna for transmitting or receiving electric waves for wireless communication, the wireless tag being retained in a main body forming a magnetism generation source; and

a protecting part which isolates the antenna of the wireless tag from water, wherein

the protecting part has an accommodating part as a recess for accommodating the wireless tag, and is provided with a fluid-tight-contact structure on an outer periphery of an opening portion of the accommodating part for fluid tight contact when combined with the main body so as to be able to prevent water from entering the accommodating part when combined with the main body via the fluid-tight-contact structure.

3. The magnetic marker according to claim 2, wherein the main body forms a columnar shape or a sheet shape, and the wireless tag is disposed on an end face of the main body forming the columnar shape or a surface of the main body forming the sheet body, and

the protecting part

is attached to the end face of the main body forming the columnar shape and has the fluid-tight-contact structure in fluid-tight contact with at least either of the end face of the main body forming the columnar shape and a side surface of an outer periphery of the main body forming the columnar shape, or

is configured to be attached to the surface of the main body forming the sheet shape and has the fluid-tight-contact structure in fluid-tight contact with the surface of the main body forming the sheet shape.

~~2~~4. The magnetic marker according to claim ~~1~~2 or 3, wherein the antenna includes waveguide parts made of a conductive material and a gap which is formed between any two of the waveguide parts arranged so as to be opposed to each other, and

the protecting part is configured so that a distance for isolating the antenna from water is longer than a distance of the gap.

~~3~~5. The magnetic marker according to claim ~~2~~1 or 4, wherein the wireless tag has an electrical component including a processing part for processing information superposed on the electric waves and a primary antenna provided to extend

electrically from the processing part, and

the electrical component is arranged in the gap.

~~4. The magnetic marker according to any one of claims 1 to 3, wherein the protecting part has an accommodating part which accommodates the wireless tag, and has a structure of being fluid-tightly combined with the main body to prevent permeation of water into the accommodating part.~~

~~5~~6. The magnetic marker according to any one of claims 1 to ~~4~~5, wherein the protecting part is formed by using a polymer material.

7. The magnetic marker according to any one of claims 1 to 6, wherein the main body is a ferrite magnet having magnetic powder of iron oxide as a magnetic material dispersed into a polymer material as a base material, and

the protecting part is combined with the main body so as to cover part of an outer surface of the main body.