CLAIMS

1. A non-contact metal card embedded with an antenna comprising:

a first body sheet having a body configured with a metal plate and having a first hole formed in a predetermined region of the body and a first slot formed by cutting off a portion between one side of the body and one side of the first hole;

a second body sheet having a body configured with a metal plate with the same size as that of the body of the first body sheet and having a second hole formed in a predetermined region of the body of the second body sheet and a second slot formed by cutting off a portion between one side of the body of the second body sheet and one side of the second hole;

an antenna inlay which is arranged between the first and second body sheets and is configured with the antenna mounted on a films sheet or a plate; and

a card IC chip seated in a first hole of the first body sheet,

wherein the first hole of the first body sheet and the second hole of the second body sheet are located in an inner region of the antenna.

2. The non-contact metal card according to claim 1, wherein a surface of the first body sheet is configured so as to have electrical insulation.

3. The non-contact metal card according to claim 1 , further comprising a fixing member configured to be mounted on a region where the first slot of the first body sheet and the second slot of the second body sheet are formed so as to fix the first slot and the second slot.

4. The non-contact metal card according to claim 3, wherein the fixing member is arranged along a direction perpendicular to long axes of the first slot and the second slot.

5. The non-contact metal card according to claim 4, wherein the fixing member includes:

a body arranged along the direction perpendicular to long axes of the first slot and the second slot; and

a blade protruding from one side of the body, and

wherein the blade is folded in a folded shape so as to surround a portion of an edge of the first body sheet where the first slot is located or an edge of the second body sheet where the second slot is located.

6. The non-contact metal card according to claim 3, wherein the fixing member is formed in a loop shape, and a portion of the fixing member is arranged along a direction perpendicular to long axes of the first slot and the second slot.

7. The non-contact metal card according to claim 6, wherein in the case where the fixing member is made of a metal, a partial region of the fixing member formed in a loop shape is cut off so that the fixing member is formed in an open loop.

8. The non-contact metal card according to claim 3, wherein the first and second body sheets further include respective depressions with a size corresponding to the fixing member in a region where the fixing member is mounted or arranged.

9. The non-contact metal card according to claim 1, wherein the first and second body sheets are adhered to each other by

using an adhesive having electrical insulation.

10. The non-contact metal card according to claim 1,

wherein the antenna is configured so that the antenna is mounted on a plate,

wherein the plate includes a first plate, a second plate, and a bar-shaped connection portion which connects the first and second plates to each other, and

wherein the antenna is arranged along an edge of an upper or lower surface of the plate to form a closed loop.

11. The non-contact metal card according to claim 10, wherein the first hole of the first body sheet is located in an inner region of the antenna of the first plate of the antenna inlay.

12. The non-contact metal card according to claim 11,

wherein the second body sheet has a second hole in a predetermined region of the body, and

wherein the non-contact metal card further comprises a hologram sheet mounted on the second hole of the second body sheet.

13. The non-contact metal card according to claim 1, wherein the card IC chip is configured as a combi-IC chip having both a non-contact card function and a contact card function, so that the non-contact metal card constitutes a combi card.

14. The non-contact metal card according to claim 1,

wherein the card IC chip is configured as a contact IC chip,

wherein the antenna inlay is mounted with a non-contact IC chip connected to the antenna, and

wherein the non-contact metal card constitutes a hybrid card.

15. A non-contact metal card embedded with an antenna, comprising:

a first body sheet having a body configured with a metal plate and having a first hole formed in a predetermined region of the body and a first slot formed by cutting off a portion between one side of the body and one side of the first hole;

a second body sheet having a body configured with a metal plate and having a second hole formed in a predetermined region of the body and a second slot formed by cutting off a portion between one side of the body and one side of the second hole;

an antenna inlay which is arranged between the first and second body sheets and is configures with the antenna mounted on a film sheet or a plate; and

a card IC chip seated in a first hole of the first body sheet,

wherein the first holes of the first body sheet and the second holes of the second body sheet are located in an inner region of the antenna to be formed at positions that face each other, and

wherein the first slot of the first body sheet and the second slot of the second body sheet are formed at positions having a gap with a predetermined distance from each other and are spaced apart from each other.

16. The non-contact metal card according to claim 15, further composing an insulating layer having electrical insulation on a surface where the first body sheet and the second body sheet are in contact with each other.

17. The non-contact metal card according to claim 16, wherein the insulating layer is formed by oxidizing the surfaces of the first body and second body sheets, by vapor-depositing an insulating material on the surfaces of the first body and second body sheets, or by using an adhesive for adhering the first body sheet and the second body sheet and having electrical insulation.

18. The non-contact metal card according to claim 15, wherein the card IC chip is configured as a combi-IC chip having both a non-contact card function and a contact card function, so that the non-contact metal card constitutes a combi card.