CLAIMS

1 – Process for producing a portable object, ~~characterized in that it~~ comprise~~s~~ing at least the following steps:

a) providing a substrate (1) in a body (10, 11) of the portable object, said portable body being provided with one or more cavities (13), said substrate (1) comprising one or more connection pads (3) that are connected to one or more electrically conductive tracks (6), at the ends of which one or more integrated circuits (5) are connected;

b) providing one or more electrically conductive elements (14);

characterized in that it comprises the further steps of:

c) substantially matching the size and the geometry of one of said cavities ~~a cavity~~ (13) to the dimensions of one of said electrically conductive elements (14), at least a portion of ~~the~~ said cavity being arranged directly above one or more of said connection pads (3);

d) using an isotropic adhesive material (15) to connect the one or more electrically conductive elements (14) via a first face (14i) at least to the connection pads (3) of the substrate (1).

2 – Production process according to Claim 1, characterized in that the one or more electrically conductive elements (14) are arranged in said cavity (13) such that the outside surface (14e) of said electrically conductive elements lies substantially in the same plane as the outside surface (12s) of the portable object (12).

3 – Production process according to Claim 1 or 2, characterized in that a substrate (1) comprising an antenna formed of one or more turns is used and in that the one or more turns of the antenna are connected to the integrated circuit (5).

4 – Production process according to one of Claims 1 to 3, characterized in that ~~the~~ said electrically conductive tracks (6) are connected to the integrated circuit (5) by means of wire bonding.

5 – Production process according to one of Claims 1 to 4, characterized in that ~~the~~ said electrically conductive tracks (6) are connected to the integrated circuit (5) by means of a flip-chip technique.

6 – Production process according to one of the preceding claims, characterized in that a substrate (1) comprising one or more electrically conductive tracks (6) printed on at least one face is used.

7 – Production process according to one of the preceding claims, characterized in that a substrate (1) comprising one or more electrically conductive tracks (6) made of aluminium is used.

8 – Production process according to one of the preceding claims, characterized in that a substrate (1) comprising one or more electrically conductive tracks (6) made of copper is used.

9 – Portable object (12) obtained by implementing the production process according to one of the preceding claims, characterized in that it comprises at least the following elements:

- a substrate (1) arranged in the body of the portable object, said substrate comprising at least one or more connection pads (3) that are connected to one or more electrically conductive tracks (6),
- said body comprising one or more cavities (13) that are located entirely or partly directly above at least one of the connection pads (3), the geometry and dimensions of a cavity (13) being suitable for accommodating one of said conductive elements (14),

- an integrated circuit (5) connected to one end of at least one or more electrically conductive tracks (6),
- one or more conductive elements (14) suitable for connecting to the portable object,
- an electrically conductive isotropic adhesive material (15) suitable for electrically connecting the conductive element (14) via a first face (14i) at least to the connection pads of the substrate.

10 – Portable object according to Claim 9, characterized in that the object is a contact card.

11 – Portable object according to Claim 9, characterized in that the object is a contactless card.

12 – Portable object according to Claim 9, characterized in that the object is a card comprising the contact and contactless functionalities.