

Abstract

Device for contactless transmission of data to mobile data carriers with protection against too close an approach

The device for contactless transmission at least of data to mobile data carriers, in particular chip cards, via an electromagnetic field includes an antenna (3) for emitting data to and/or receiving data from the mobile data carriers (15), an antenna field area (1) at least for covering the antenna (3), and spacing means (5, 7), which are located at at least one edge region of the antenna field area (1) and configured so as to prevent areas of the trunk of, in particular, human bodies, in particular parts of the chest, back and pelvis, from approaching too close to the antenna field area. The spacing means can be configured in the form of at least one bow and be arranged at least at two opposite side edges (17, 19) of the antenna field area. The spacing means (5, 7) can also be configured in the form of a trough (13) holding the antenna field area or in the form of at least one raised portion (25, 27) at at least one edge region of the antenna field area. The invention has the advantage of preventing an impermissibly close approach of sensitive body parts such as parts of the chest, back and pelvis, for example, from approaching too close to the antenna field area, and thus prevents people with implants, in particular, from being endangered.

FIGURE 1