secondary device when the secondary device is in the cavity, the at least one electrical contact being electrically connected to the source of electrical power; and at least one data contact configured to transfer data between the primary device and the secondary device. The secondary device is keyed to the cavity of the primary device.

According to a first aspect of the present disclosure, there is provided an electrical system comprising a primary device and secondary device, wherein the primary device comprises: a source of electrical power; a cavity configured to receive the secondary device; at least one electrical contact within the cavity configured to contact a corresponding contact on the secondary device when the secondary device is in the cavity, the at least one electrical contact being electrically connected to the source of electrical power; at least one data contact configured to transfer data between the primary device and the secondary device; and a lid moveable between a first position to retain the secondary device in contact with the at least one electrical contact and the at least one data contact and a second position in which the secondary device is free to move out of contact with the at least one electrical contact and the at least one data contact wherein in the first position the lid urges the secondary device into contact with the at least one electrical contact and the at least one data contact; wherein, the secondary device is keyed to the cavity of the primary device.

Preferably, the keying comprises the cavity having a non-regular transverse cross- sectional shape, and the secondary device having a corresponding non-regular transverse cross-sectional shape. The non-regular transverse cross-sectional shape of the cavity may comprise a protrusion for keying with the non-regular transverse cross-sectional shape of the secondary device having a slot. Alternatively, the non-regular transverse cross- sectional shape of the cavity may comprise a slot for keying with the non-regular transverse cross-sectional shape of the secondary device having a protrusion.

Preferably, the secondary device comprises a coupling portion for coupling the secondary device to the at least one electrical contact and the at least one data contact, in which the coupling portion is stepped or tapered. The tapered or stepped portion may extend for between 5% and 20% of the length of the secondary device. The coupling portion may have a transverse cross-section that is non-circular, for example polygonal.

Preferably, the primary device further comprises a lid moveable between a first position to retain the secondary device in contact with the at least one electrical contact and the at least one data contact and a second position in which the secondary device is free to move out of contact with the at least one electrical contact and the at least one data contact. The primary device may be configured to prevent the supply of power to the secondary device through the at least one electrical contact when the lid is not in the first position. In the first position the lid may urge the secondary device into contact with the at least one electrical contact and the at least one data contact. At least

one of the at least one electrical contact, and the at least one data contact preferably comprises a resilient element configured to urge the secondary device towards the lid when the secondary device is positioned in the cavity.

The lid may comprise at least one aperture allowing the escape of material from the cavity when the secondary device is in the cavity and the lid is in the first position.

Preferably, the source of electrical power in the primary device comprises a rechargeable battery.

Preferably, the secondary device is an electrically heated aerosol generating device comprising a heating element and a rechargeable power source. The primary device may be configured to provide power to the secondary device in a manner suitable to recharge the rechargeable battery in the secondary device when the secondary device is in contact with the at least one electrical contact.