

The invention relates to a programmable electronic closure system comprising a lock (12) designed to be operated by a key (18) when an identification code of the lock and an identification code of the associated key are observed to match. The lock includes a cylinder (14) provided with a portion (14A) in which at least one keyway (16) is provided for receiving said key (18), the cylinder including at least one electrical connection means (39), an electronic control means including at least one memory means for storing at least one identification means and connected to the at least one electrical connection means, and release means responsive to said electronic control means and designed to release the lock, and the key includes first electrical connection means (19) designed to co-operate with the electrical connection means of the lock when the key is inserted in the corresponding keyway (16), first electronic control means including at least first memory means for storing at least one identification code and connected to the first electrical connection means and designed to transmit a release instruction to the lock, and programming means operable, under the control of confidential code input means, to modify the data contained in each of the electronic control means in the key and the lock, the electronic control means of the key and the lock and the release means of the cylinder being powered by power supply means. The invention also provides a lock, a cylinder, and a multifunction key as implemented in the above-specified programmable electronic system.