

ABSTRACT

DOCKING INTERFACE FOR PORTABLE DEVICE

5 The present invention is a docking interface for portable electronic devices
that feature at least a printed circuit board (PCB) contact and a set of spring
loaded contact pins for facilitating the recharging of power source and
transfer of data between the devices and their hosts. Because of the
thickness of a PCB and the retraction of the spring loaded pins, the overall
10 profile of the present invention is reduced to a minimum. At the same time,
the reliability of the contact between the portable device and the docking
station is assured. As such, the present invention offers an economical
and reliable solution for docking interface in portable electronic devices
that permit further reduction in size and weight without imposing
15 constraints on the availability of increased functionality.

Figure 4.