PORTABLE POWER GENERATOR

ABSTRACT OF THE DISCLOSURE

A portable power generator employs high voltage DC, at standard AC voltages and using standard AC connectors. Since switching chargers immediately rectify the 120-240 Volt single phase AC input, a 120-240 Volt DC source is acceptable to drive these chargers. A high frequency conversion to AC and a step up transformer is one approach and the second approach uses an inductor in a boost circuit. Mechanically a hand crank and pedal powered mechanism are used. In a first embodiment, a one dynamo (generator) 10 watt hand crank model can drive the charger for a complete range of portable devices except laptops. In a second embodiment, a two dynamo (generator) model operated with pedals can drive a small 20 watt laptop. The invention contemplates use of either one generator or two generators in parallel or in series. Additional generators over two can also be employed.

Fig. 1