

**SYSTEM AND METHOD TO USE PROPELLERS AND ELECTRIC MOTORS TO
MEASURE THE POWER PRODUCED BY INTERNAL COMBUSTION ENGINES**

ABSTRACT

5 A method for determining a power produced by a internal combustion engine for use
in designing/selecting a propeller for the engine, the method comprising the steps of:
determining power versus motor shaft speed characteristics for at least one
propeller coupled to an electric motor having a similar power rating and motor speed
range as that of the internal combustion engine; connecting said propeller to said
10 internal combustion engine; measuring a speed of said propeller while connected to
said internal combustion engine; using said speed measurement and said power
versus propeller speed characteristic of said propeller to determine the power
produced by said engine. In some embodiments, a fuel flow rate and engine
efficiency may also be calculated, and these calculations used to design/select the
15 propeller.

FIGURE 5