

A POWER GENERATOR

Abstract

5 An electrical power generator assembly (10a) for using kinetic energy from a flowing fluid (12) to generate electrical power. The electrical power generator (10a) includes a blade assembly (14) and at least one primary coil (52). The blade assembly (14) having a head end (16) for facing incoming flowing fluid (12), a tail end (18) spaced from the head end (16) for facing in the direction of the flowing fluid (12), and a rotational axis (20) extending between the head end (16) and the tail end (18). The blade assembly (14) includes a blade arrangement (44) which is arranged in generally helical fashion about the rotational axis (20), and at least one mounting formation (26, 36) connected to the blade arrangement (44). Each mounting formation (26, 36) is adapted to permit mounting of the blade assembly (14) for rotation about its rotational axis (20), so that in use fluid
10 flowing past the electrical power generator assembly (10a) interacts with the blade arrangement (44) to rotate the blade assembly (14) about its rotational axis (20). The at least one primary coil (52) is connected to the blade arrangement (44) for rotation with the blade arrangement (44). The at least one primary coil (52) is energizable and being arranged in use to interact with at least one stationary secondary coil (54b) to generate
15 electrical power in response to rotation of the blade assembly (14).
20

Fig. 1