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INT CL **B63B, F03D**
Other: **WPI, EPODOC, CNPAT, CNKI**

(54) Title of the Invention: **Self-aligning to wind facing floating platform supporting multi-wind turbines and solar for wind and solar power generation and the construction method**
Abstract Title: **Self-aligning to wind facing floating platform supporting multi-wind turbines and solar for wind and solar power generation and the construction method**

(57) A self-aligning to the incoming wind floating platform supporting multiple wind turbines(17, 18) forms a wind power generation unit. Under horizontal wind, the wind load resultant passes the center of geometry of the wind load receiving areas (hereafter C.Geo) of the floating platform, but not the turning axis (15), resulting a yaw moment about the turning axis (15) to turn the floating platform until the wind load resultant passes through the C.Geo and the turning axis (15) simultaneously. A wind park or wind farm comprises at least one floating platforms capable of self-aligning to the incoming wind for electric power generation. The floating platform helps to reduce the mileage of the submarine power cable (44), hence reducing the electric resistance and subsequently heat loss, and reducing the cost of submarine power cables (44).

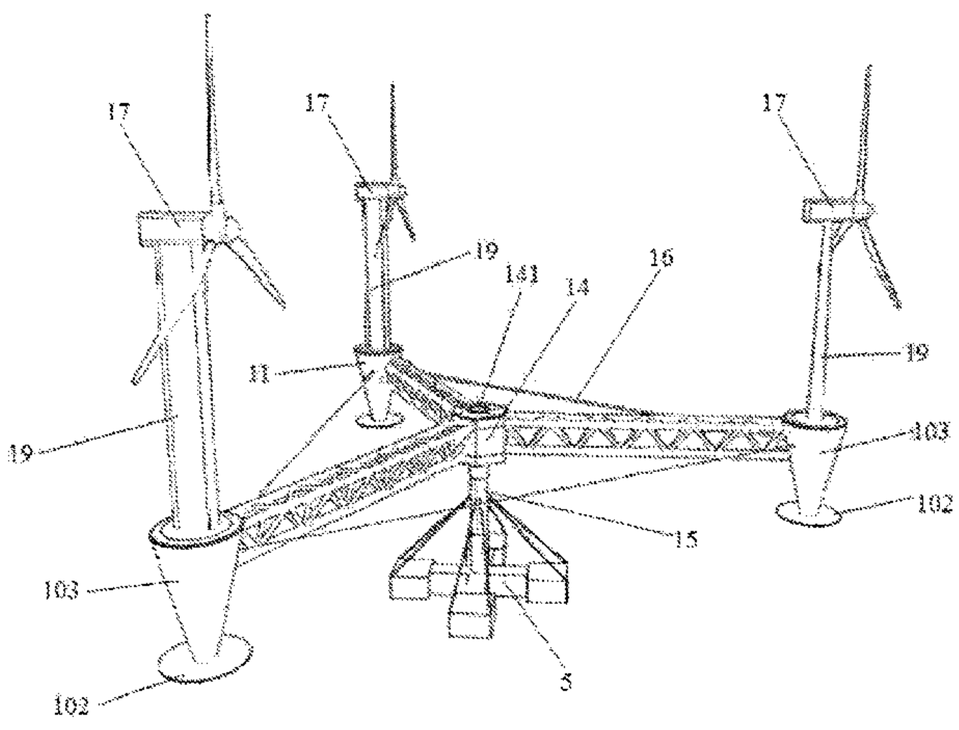

FIG. 1

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