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(54) Title: A MAGNUS ROTOR, ASSOCIATED ASSEMBLIES AND MECHANISMS

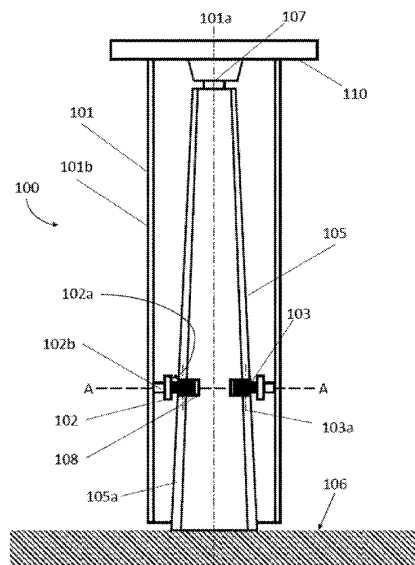


Fig. 1(a)

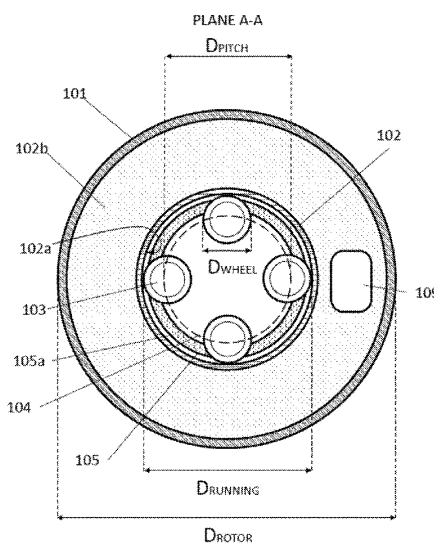


Fig. 1(b)

(57) Abstract: A Magnus rotor comprising: a rotor rotatable about a rotor axis and having an external surface defining a rotor diameter, the rotor having an internal running surface defining a running surface diameter no greater than 80% of the rotor diameter; a support structure configured to rotatably support the rotor; and, a plurality of wheels, each wheel being rotatably mounted to the support structure so as to rotate about a respective wheel axis extending substantially parallel to the rotor axis and being positioned such that the wheel rolls against the internal running surface as the rotor rotates about the support structure. This disclosure further relates to a wheel assembly, a drive assembly, a biasing assembly and a gimballed wheel mechanism for a Magnus rotor.

[Continued on next page]

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