

ABSTRACT**MODULATION OF FIBER LASER PUMPED DIFFERENCE FREQUENCY GENERATOR**

Systems and methods for modulating the output of a difference frequency generator such as an OPO, OPA or OPG include a pump fiber laser having at least one internal, directly modulatable component, wherein the pump fiber laser produces a pump signal, and a difference frequency generator coupled to the pump fiber laser. The difference frequency generator is configured for accepting the pump signal of the pump fiber laser and producing an output signal, wherein parameters of the output signal are determined based on direct modulation of the internal, directly modulatable component of the pump fiber laser.

FIG. 1