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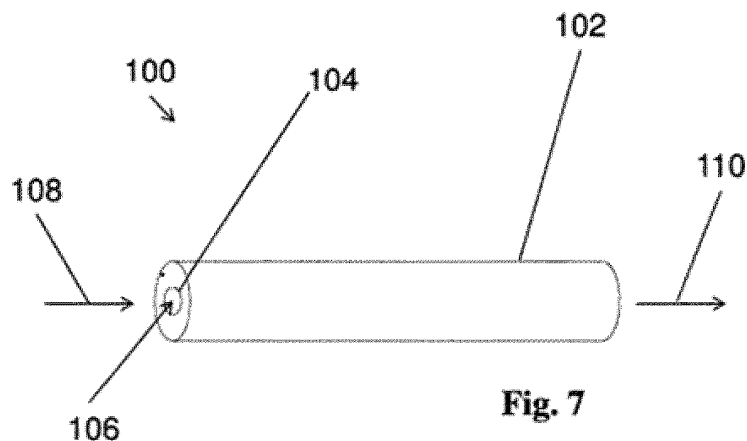
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(54) Title: FREQUENCY BROADENING APPARATUS AND METHOD



(57) Abstract: An apparatus (100) for receiving input radiation (108) and broadening a frequency range of the input radiation so as to provide broadband output radiation (110). The apparatus comprises a fiber (102), wherein the fiber (102) may comprise a hollow core (104) for guiding radiation propagating through the fiber (102). The apparatus (100) further comprises an apparatus for providing a gas mixture (106) within the hollow core (104). The gas mixture (106) comprises a hydrogen component, and a working component, wherein the working component is for broadening a frequency range of a received input radiation (108) so as to provide the broadband output radiation (110). The apparatus may be included in a radiation source.



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