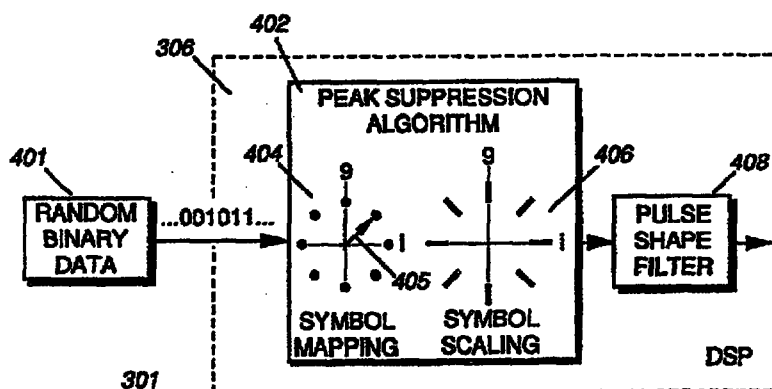


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(54) Title: **RADIO WITH PEAK POWER AND BANDWIDTH EFFICIENT MODULATION**

(57) Abstract

A communication device (300) includes a digital modulator (301), a Digital Signal Processor (306), and an amplifier (312). The digital modulator (301) includes an information generator (304) and a peak suppression device (402). The peak suppression device (402) includes a symbol mapper (404) and a symbol scaler (406). The information generated by the generator (401) are mapped on a constellation diagram via the symbol mapper (404). The mapped information is then scaled at the scaler (406) in order to reduce the peak-to-average ratio of the signal at the input to the amplifier (312).