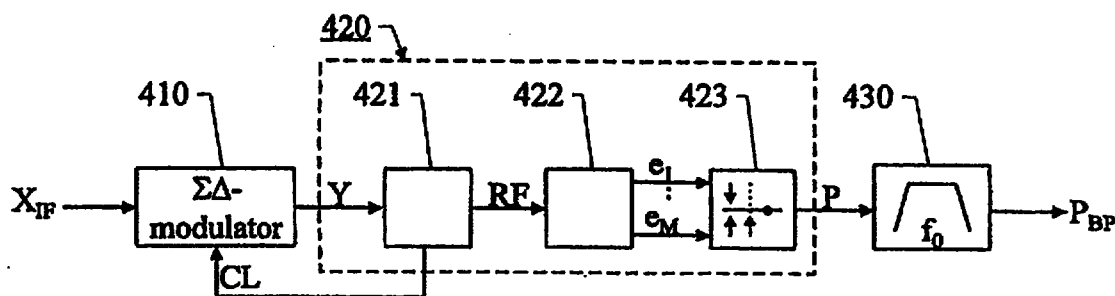


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(54) Title: ARRANGEMENTS AND METHODS FOR GENERATING A RADIO FREQUENCY SIGNAL



(57) Abstract

The present invention relates to arrangements and methods for radio frequency modulation and power amplification of an information signal (X_{IF}). Modulation and amplification of the information signal (X_{IF}) is carried out with very high linearity and efficiency over a wide frequency band by sigma-delta modulating (410) said information signal (X_{IF}), whereby a digital signal (Y) is generated. The digital signal (Y) is up-mixed and voltage switched (420) by voltage-fed switches (423) controlled by the up-mixed digital signal (RF). Said switches are preferably conductive elements whose electric conductivity depend on the amount of ionising radiation that falls on the elements.