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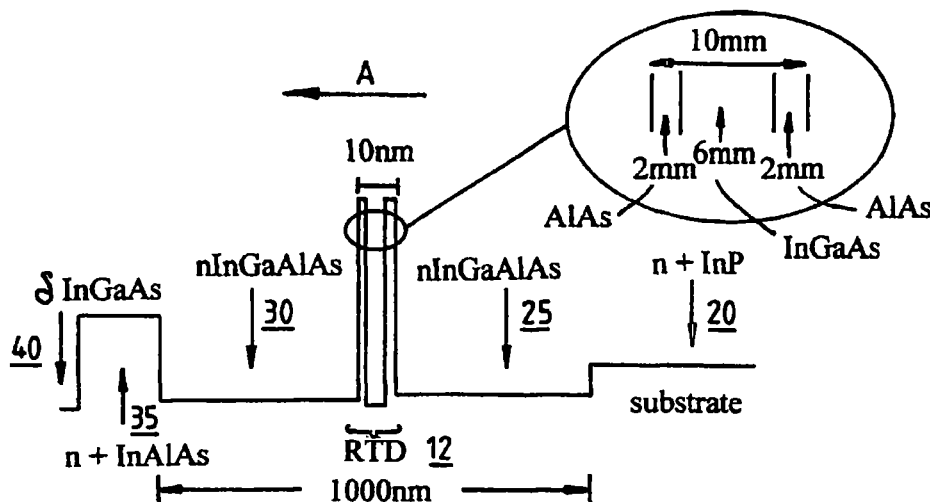
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(54) Title: IMPROVED OPTOELECTRONIC DEVICE



(57) Abstract: There is disclosed an optoelectronic device (5) at least partially made from a quaternary III - V semiconductor alloy, the device (5) including at least one resonant tunnelling diode (RTD) (12). In a preferred embodiment the quaternary alloy is Indium Gallium Aluminium Arsenide (InGaAlAs). There is also disclosed an optical modulator (10) for modulation of electro-magnetic radiation in the wavelength region 1000 to 1600 nm, wherein the modulator (10) includes an RTD (12) for modulating the radiation.

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