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(71) Applicant *(for all designated States except US)*: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 20 Biopolis Way #07-01, Centros, Singapore 138668 (SG).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **GUO, Li Hui** [CN/SG]; c/o Institute of Microelectronics, 11 Science Park Road, Singapore Science Park Ii, Singapore 117685 (SG). **LI, Hong Yu** [CN/SG]; c/o Institute of Microelectronics, 11 Science Park Road, Singapore Science Park Ii, Singapore 117685 (SG). **TANG, Min** [CN/SG]; c/o Institute of Microelectronics, 11 Science Park Road, Singapore Science Park Ii, Singapore 117685 (SG).

(74) Agent: **BOGSCH, Adam**; Viering, Jentschura & Partner, P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

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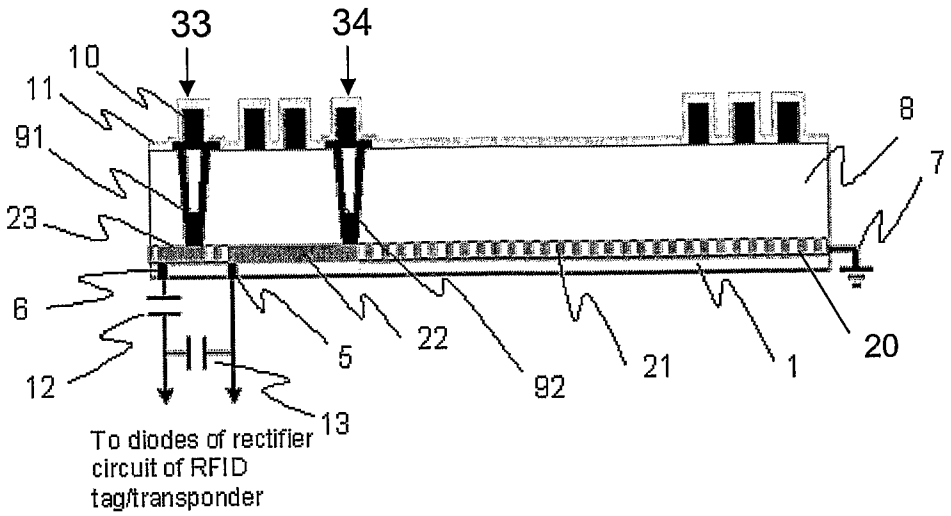
(54) Title: AN ON-CHIP ANTENNA AND A METHOD OF FABRICATING THE SAME



(57) Abstract: An on-chip antenna fabricated on a chip for wireless communication is disclosed. The on-chip antenna includes a first dielectric layer arranged on a surface of the chip of the radio frequency identification tag, a grounded shielding layer arranged on the first dielectric layer, a second dielectric layer arranged on the grounded shielding layer, and a planar antenna arranged on the second dielectric layer above the grounded shielding layer. A radio frequency identification tag with an on-chip antenna and a method of fabricating an on-chip antenna on a chip for wireless communication are also disclosed.

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