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(54) Title of the invention : A SECURE VIRTUALIZATION SYSTEM FOR ISOLATED COMPUTING ENVIRONMENTS

(51) International classification	:H04L 29/06, G06F 21/57, G06F 9/455, H04L 9/32, H04L 9/40	(71)Name of Applicant : <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

A secure virtualization system includes a host computing platform (101), an isolation manager (102), a policy engine (103), a protected resource controller (104), a communication gateway (105), an integrity monitor (106), an attestation unit (107), and a recovery controller (108) for establishing isolated computing environments (109). The isolation manager (102) provisions domains, the policy engine (103) determines permissible conditions, the protected resource controller (104) allocates sanitized resources, the communication gateway (105) mediates approved exchanges, the integrity monitor (106) derives runtime trust measurements, the attestation unit (107) issues signed evidence, and the recovery controller (108) performs containment and restoration actions.

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