

eca3G Digital Earthing System

US Patent No 7,652,865 B2

Earthing Device which not need to be buried in Ground

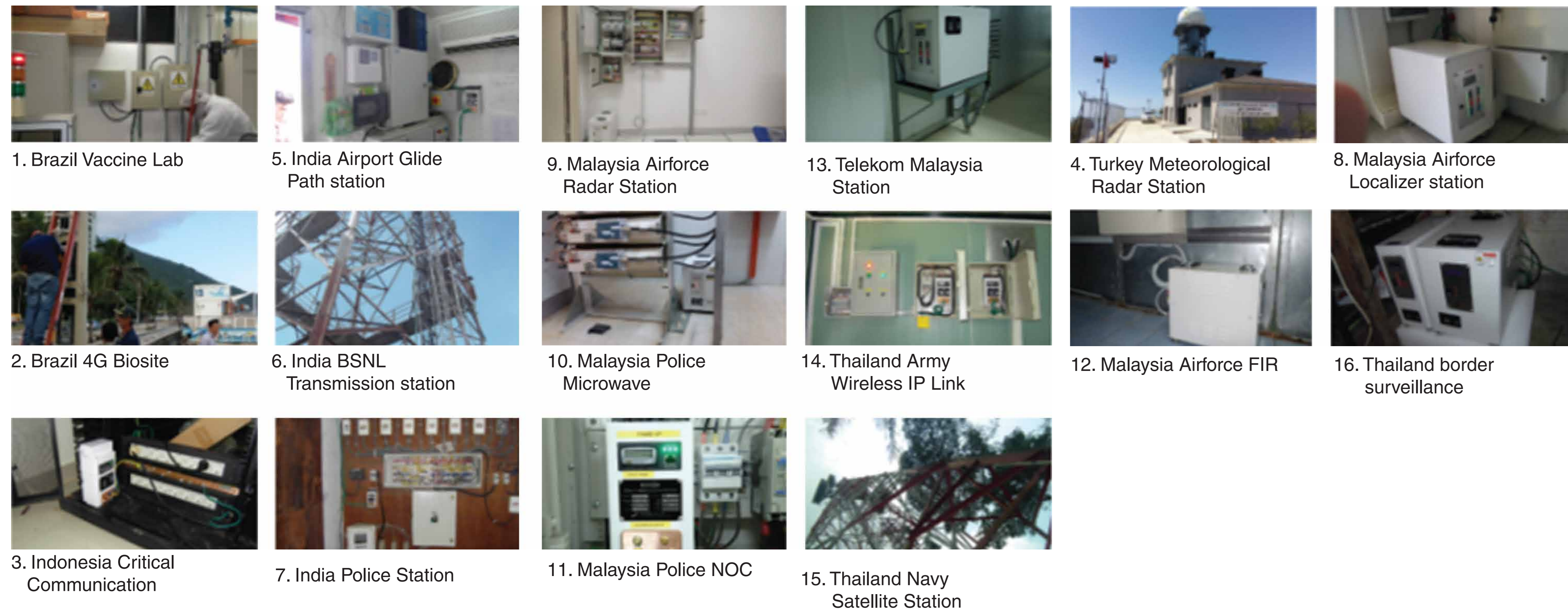
- Proven at 4000+ National Security sites for 18 years
- Registered at US Army Foreign Technology Database(GSTW)



Energy Conversion Apparatus 3rd Generation

- » Total Lightning Protection(Targeting 100% protection)
- » Provide Equi-potential, common grounding function (near zero N-G Potential difference assured - below 0.2V)
- » Patented technology(USA, PCT, Korea)
- » Digital Grounding Apparatus
 - Need not additional grounding rod
 - Need not low earthing resistance
 - Grounding without burying in ground
- » Multi-Pulse lightning protection design

eca3G Overseas Performances



eca3G [eka three Gee]

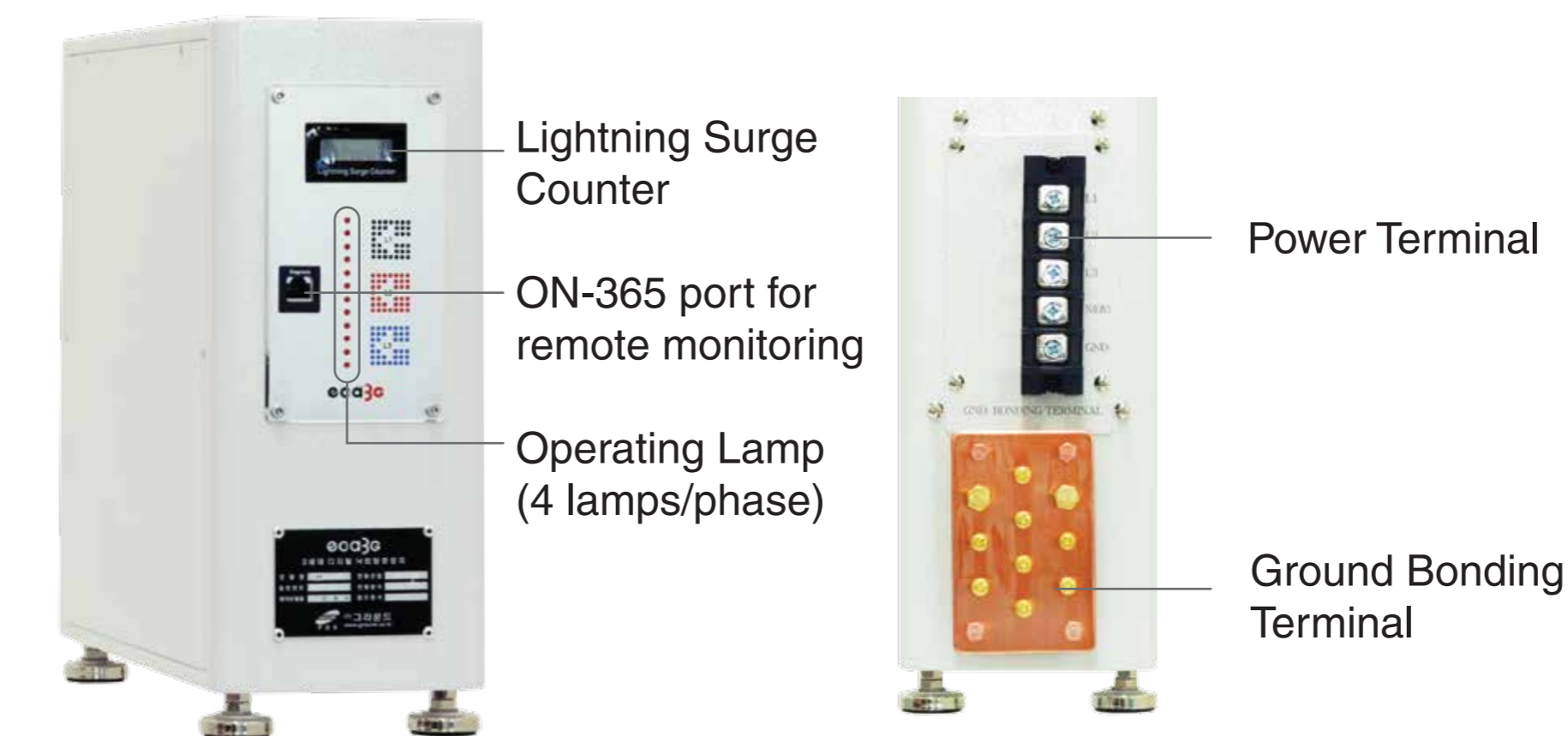
Protect PCB, IC-Chip, Electronic component, Digital ICT devices & Sensors

Changes of Lightning protection environment

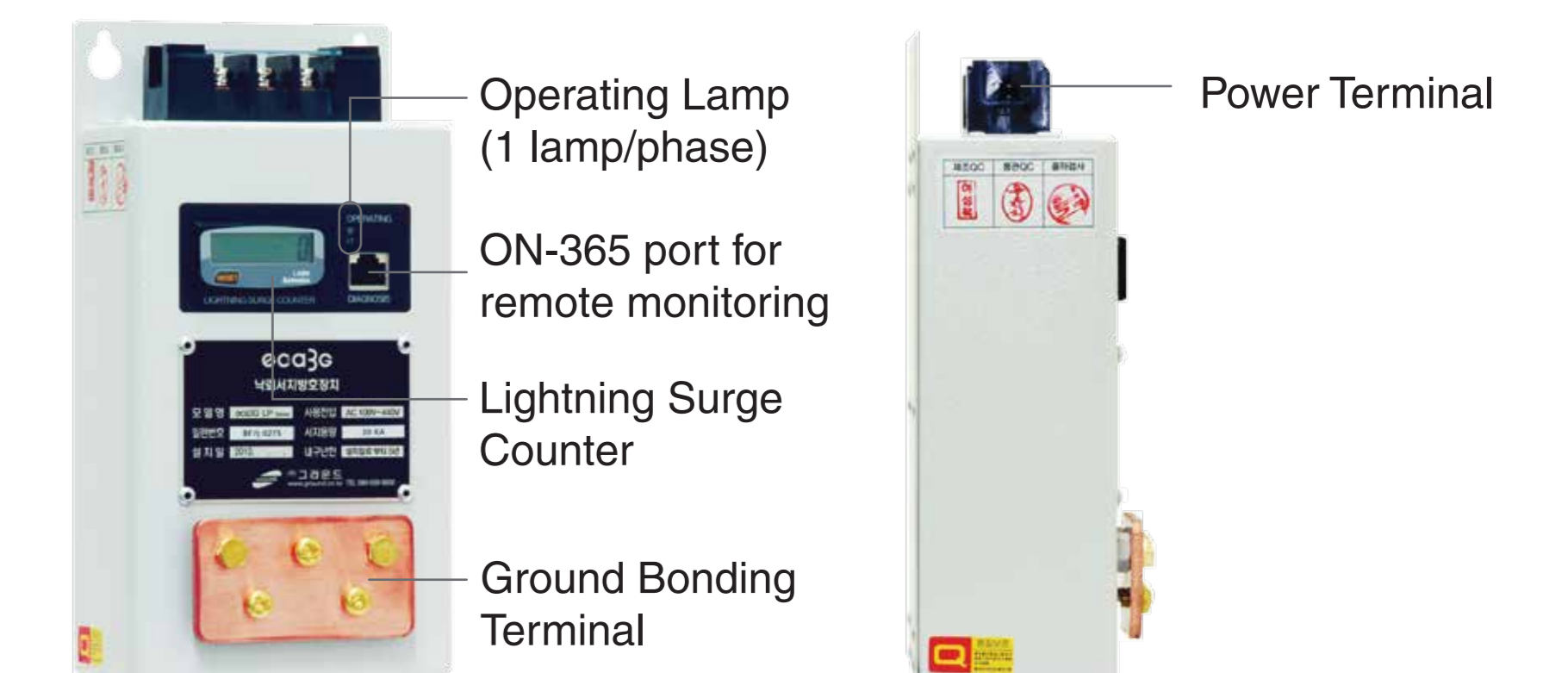
- 1. Multi-pulse lightning become 70~80% of recent lightning**
 - 3~4 strikes in a second at same lightning strike path
- 2. More Semi-conductors (IC Chips) are used for advanced Digital, Network system**
 - 88.3% of unknown failures of electronic equipment caused by surge
- 3. Networked electronic, digital, communication, IT equipment**
 - Reference potential (neutral), TN grounding become important
- 4. Most damages of electronic equipment by indirect lightning**
 - Most damages from Reverse surge, Ground Potential Rise, NOT by direct lightning,
- 5. N-G potential difference affect functions of advanced IC chips**
 - MRI scanning image distortion. CNC Lathe signal error, Data input error at data center

<eca3G> is specially designed for perfect lightning protection under above environment.

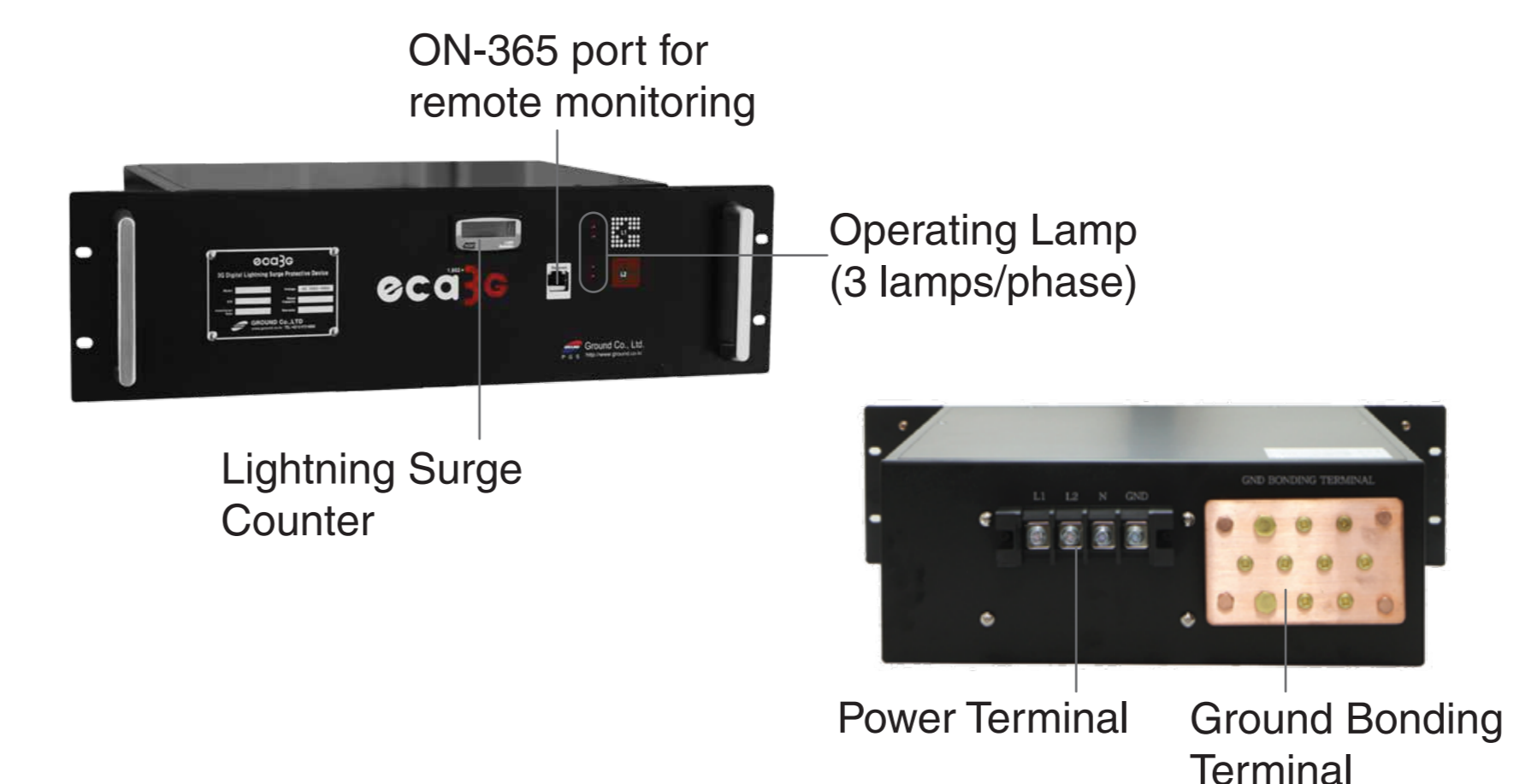
LM-Series



LP-Series



TM-Series



TNC-P

