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Siemens demonstrates high innovative strength despite the economic crisis

Research focus on sustainability — 13 outstanding inventors honored

Siemens' innovative strength continues unabated: The company currently owns over 56,000 patents — 1,000 more than in fiscal year 2008. Siemens applied for around 4,200 patents in fiscal year 2009, the result of approximately 7,700 inventions reported worldwide by the company's 32,500 researchers and developers — which is equivalent of 35 inventions per day of work. At a ceremony in Munich on November 23, Siemens CEO Peter Löscher honored 13 of the company's most outstanding inventors. The award-winning research ranges from an infrared camera system that makes it possible to look into the white-hot interiors of gas turbines, to environmentally friendly "green ship" technology and a new 3D X-ray diagnostic system for detecting cancer. Altogether the 13 inventors hold about 1,000 individual patents.

Siemens has been presenting its annual Inventor of the Year award to outstanding researchers and developers at the company since 1995. "Eight of this year's 13 inventors are working on 'green' technologies," said Löscher. "This shows that our company clearly focuses on sustainability in its research work as well. We are the world's largest supplier of environmentally friendly technologies, a position that we will further expand in the future."

One of the award-winning inventors is researching new steam turbines for solar-thermal power plants like those needed for the project to bring solar power from Africa's deserts to Europe. Another inventor is developing extremely heat-resistant alloys for the maintenance and repair of high-efficiency gas turbines. And a team of inventors is developing an all-new power converter that will be used to connect offshore wind parks to the power grid.

"Research and development remain a clear focus for us even in a time of crisis," said Prof. Hermann Requardt, Head of Corporate Technology and CEO of the Healthcare Sector. Corporate Technology accounts for a particularly large proportion of the inventions reported in 2009, when it

increased its share of inventions by nearly a third. “This fact underscores the unit’s importance as an innovation powerhouse for the entire company,” added Requardt.

“The Group’s innovative strength continues unabated,” said Dr. Winfried Büttner, Head of Corporate Intellectual Property and Functions at Siemens. “We are even more focusing on submitting applications patents with high value in terms of quality — in order to safeguard the company’s key technological positions.”

The Inventors of the Year for 2009:

Dr. Magnus Hasselqvist, 45, from Finspang, Sweden, succeeded in developing a very heat-resistant super-alloy for gas turbine blades in a remarkably short period of time.

Peter Helbig, 56, from Herbrechtingen, Germany, created an all-new lamp socket and a special halogen lamp for automotive headlights.

The inventors **Dr. Marc Hiller**, 35, and **Dr. Rainer Sommer**, 48, from Nuremberg, Germany, are working on an all-new power converter for use with any kind of output voltage in the medium voltage range. The system makes it possible to connect offshore wind parks to the power grid.

Dr. Arun Krishnan, 43, from Malvern, USA, is using a computer-based diagnostic system to facilitate radiological workflows.

Dr. Thomas Mertelmeier, 54, from Erlangen, Germany, is working on expanding digital 2D mammography into 3D tomosynthesis, which should substantially reduce the error rate in breast cancer examinations.

Thilo Opaterny, 45, from Fürth, Germany, created an error message box for system architectures of complex facilities. In automation systems, the box makes it possible to directly eliminate faults where they occur.

Dr. Stefan Popescu, 49, from Erlangen, Germany, has shortened the time interval between the point when a CT records data and the provision of reconstructed images.

Dr. Michael Pugia, 48, from Elkhart, Indiana, USA, is conducting research in the area of microfluidics. The technology will enable small devices to cost-efficiently perform diagnoses that so far have had to be conducted in large labs.

Dr. Günter Schmid, 46, from Erlangen, Germany, is developing organic light-emitting diodes (OLEDs).

Kay Tigges, 48, from Hamburg, Germany, is moving forward with green ship technology by specially optimizing the exhaust gas recirculation of diesel engines in ships.

Michael Wechsung, 44, from Mülheim an der Ruhr, Germany, developed a new cooling process for ultra super-critical steam turbines.

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Paul Zombo, 49, from Orlando, Florida, USA, created an infrared camera system that makes it possible to precisely measure the temperature inside a steam turbine, thereby increasing its efficiency and service life.

In-depth coverage of the inventors and photographs are available online at:

<http://www.siemens.com/presspictures/inventors2009>

Siemens AG (Berlin and Munich) is a global powerhouse in electronics and electrical engineering, operating in the industry, energy and healthcare sectors. The company has around 410,000 employees (in continuing operations) working to develop and manufacture products, design and install complex systems and projects, and tailor a wide range of solutions for individual requirements. For over 160 years, Siemens has stood for technical achievements, innovation, quality, reliability and internationality. In fiscal 2008, Siemens had revenue of €77.3 billion and a net income of €5.9 billion (IFRS). Further information is available on the Internet at: www.siemens.com.