

AWARDS

Creatv MicroTech's microfabrication technology won a 2006 R&D 100 award presented by R&D Magazine. The R&D 100 Awards program honors significant commercial promise in products, materials, or processes developed by the international research and development community. Each year, R&D Magazine recognizes the world's top 100 scientific and technological advances with awards for innovations showing the most significant commercial potential.



PRODUCT: [Anti-scatter Grids for X-ray Imaging and Collimators for Nuclear Imaging made by LIGA](#). This invention improves x-ray imaging, used in mammography and other medical imaging applications. As x-rays interact with tissue and bones, x-rays are attenuated and scattered. Scattered x-rays modify and cloud the image. Anti-scatter grids, placed between the object and the imager, removes the scattered x-rays and yield higher-quality images.

Nuclear imaging using radiotracers determines the function and chemistry of organs, rather than the shape and structure as produced by x-ray imaging, and is important for detecting small tumors. Collimators are used for nuclear imaging to direct only the desired radiation to the detector. Collimators made by LIGA can improve the resolution of the images.

These improved images will reduce both false positives and false negatives, leading to an ultimate result of saved lives and lower costs.

IN THE NEWS

MICRO/NANO

25 - TECHNOLOGIES OF TOMORROW

LIGA anti-scatter x-ray grids

MicroNano Magazine July 2006, Vol 11, NO 7, Pag.8.

Advanced x-ray anti-scatter grids can be made with the LIGA method to increase radiography clarity and reduce the radiation dose received by x-ray technicians by up to 13%. These grids also increase the transmission of desired radiation from 72% to 90% with higher resolutions. Lower image distortion, eliminates variation across the grid, allows for a more accurate interpretation of the radiographs, and minimizes the number of false positives/negatives.

MICRO/NANO

2006: BEST OF TECHNOLOGY

MicroNano Magazine Sept. 2006, Vol 11, NO 9, Pag.6.

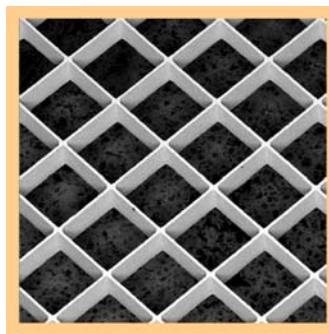
Winner in the 44th Annual R&D 100 Awards competition were recently announced by the editors of R&D Magazine. The award winners for products and technologies introduced into the marketplace over the past year will be recognized at the Black Tie Awards Ceremony at Chicago's Navy Pier on Oct. 19th, 2006.



Developers from left to right are Ralu Divan¹, Guohua Yang², Judi Yaeger¹, Derrick Mancini¹, Platte Amstutz², Cha-Mei Tang², Vladislav N. Zyryanov², Olga Makarova², and Nicolaie Moldovan², and were employed at the time of development by

¹ Argonne National Laboratory and

² Creatv MicroTech, Inc.



Product:
Anti-Scatter Grid

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