

A High Speed X-Ray System for Three Dimensional Brain Dynamics

Disclosure Number

201202879

Technology Summary

The invention relates to blast analysis and more specifically to an x-ray apparatus and method of analyzing a blast. The system uses three very large high speed x-ray detectors at nearly right angles to each other and three large x-ray sources. The object to be studied is placed between the x-ray sources and detectors and then the object is subjected to a blast. The combination allows essentially a computed tomographic scan to be assembled from the detector information. The x-ray sources and detectors can be placed many feet from the object to avoid damage to the equipment. This technology provides crucial data in the understanding of brain dynamics in traumatic blast injuries.

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