



ABSTRACT OF THE DISCLOSURE

An image pickup apparatus for X-ray photography is structurally adapted to absorb external impacts and possible resultant deformations such as deflections of the cabinet so that the interior is protected against damage and remains intact if the cabinet is deformed by the external load. The two-dimensional image pickup apparatus comprises a substrate, two-dimensional photoelectric converters formed on the substrate and an apparatus cabinet containing the substrate and the photoelectric converters in the inside, at least part of the apparatus cabinet being deformable and capable of restore the original profile or a plurality of containers such as air bags being inserted into the gap between said substrate and said apparatus cabinet to prevent the inner wall surface of said apparatus cabinet and said substrate from contacting each other.