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(54) **CUT-FOLD SHAPE TECHNOLOGY FOR ENGINEERED MOLDED FIBER BOARDS**

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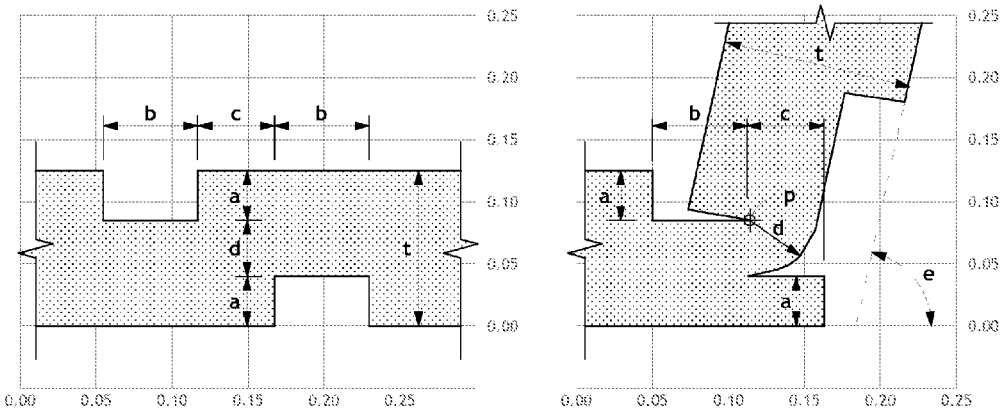
(57) **ABSTRACT**

A three-dimensional engineered shaped fiber configuration is formed using determined structural requirements for a three-dimensional engineered shaped fiber configuration and ascertained properties of an engineered molded fiber fiberboard material. A first cut on a top surface and a second cut on a bottom surface of the fiberboard material are calculated. These calculations are based, at least in part, on the structural requirements properties of the fiberboard material. The first cut and the second cut each have a depth, a width, and a position. The first cut and the second cut have a spacing between them such that the flat piece of fiberboard material can be folded at a point located in the spacing between the first cut and second cut to position a first portion of the fiberboard material at a particular angle with respect to a second portion of the fiberboard material.



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