

Title (en)
FOLDABLE COMPOSITE PANEL WITH COMPRESSION RELIEF HINGE

Title (de)
FALTBARES VERBUNDPANEEL MIT KOMPRESSIONSENTLASTUNGSGELENK

Title (fr)
PANNEAU COMPOSITE PLIABLE A CHARNIERE D'ALLEGEMENT DE COMPRESSION

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Application
EP 06846874 A 20061229

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Abstract (en)
[origin: WO2007076544A1] According to an exemplary embodiment, a composite panel includes a primary layer (102, 120a) that includes a primary hinge (122a). The primary hinge (122a) is defined by at least one fold line. The composite panel further includes a reinforcing layer (110, 136a) that includes a compression relief hinge (140a). The compression relief hinge (140a) is defined by a pair of distal fold lines (142a, 146a) and a medial fold line (144a) that is disposed between and spaced apart from the distal fold lines (142a, 146a). The primary hinge (122a) overlies the compression relief hinge (140a) so that when the composite panel is folded about the primary hinge (122a), the composite relief hinge (140a) buckles away from the primary hinge (122a).

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