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何伟(**HE, Wei**); 中国上海市虹口区东大名路 1158 号浦江国际金融广场 7 楼 200082 (CN)。

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(71) 申请人: 中太能源科技(上海)有限公司
(**SINOTECH ENERGY CO., LTD.**) [CN/CN]; 中国上海市虹口区东大名路 1158 号浦江国际金融广场 7 楼 200082 (CN)。

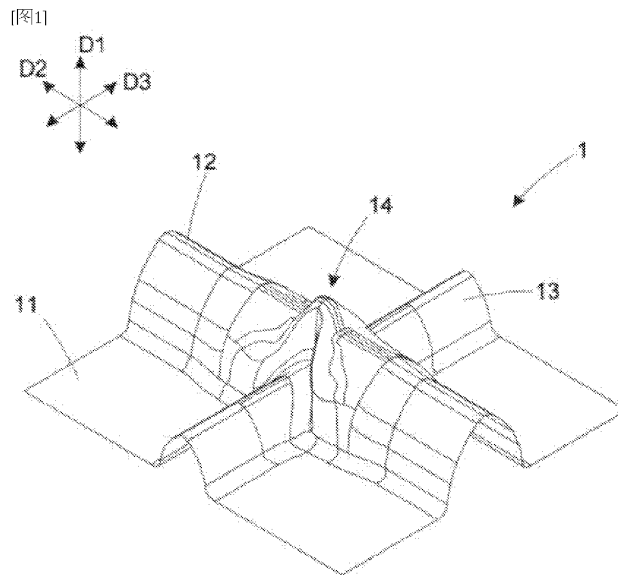
(72) 发明人: 魏颖(**WEI, Ying**); 中国上海市虹口区东大名路 1158 号浦江国际金融广场 7 楼 200082 (CN)。

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(54) **Title:** CORRUGATED PLATE AND LIQUEFIED GAS STORAGE VESSEL HAVING SAME

(54) 发明名称: 波纹板及具有其的液化气体储存容器



(57) **Abstract:** Provided in the present invention are a corrugated plate and a liquefied gas storage vessel having a corrugated plate. The corrugated plate comprises a plate body, first corrugations, second corrugations orthogonal to the first corrugations, and intersection structures formed at the intersections. The first corrugations are higher than the second corrugations. Each intersection structure comprises a top, ridges and recesses, wherein the top is located in the center of the intersection, and the protrusion height of the top is greater than that of the first corrugation; one ridge is formed in each of four quadrants formed by means of the orthogonality of the corrugations, and extends from the top towards the plate body, and the overall extension direction of each ridge intersects the first corrugation, the

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根据细则4.17的声明:

— 关于申请人有权申请并被授予专利(细则4.17(ii))

本国际公布:

- 根据申请人的请求, 在条约第21条(2)(a)所规定的期限届满之前进行。
- 不包括国际检索报告, 在收到该报告后将重新公布(细则48.2(g))。

second corrugation and the direction of height; and four recesses are provided, and each recess is located in one quadrant, is formed on an outer side surface of the first corrugation, is located between the first peak of the first corrugation and the ridge, and is recessed inwards relative to the outer side surface of the first corrugation. In the present invention, the intersection structures enable the upper and lower surfaces of the intersections to have uniform line lengths, such that uniform thicknesses are achieved, and excessive thinning is prevented, thereby achieving a better structural strength and fatigue resistance.

(57) 摘要: 本发明提供了一种波纹板及具有其的液化气体储存容器。波纹板包括板主体、正交的第一波纹、第二波纹以及在交汇位置形成的交汇结构。第一波纹高于第二波纹。交汇结构包括顶部、脊和凹坑部。顶部位于交汇位置中心, 凸出高度大于第一波纹。波纹正交所形成的四个象限中的每个内形成一个脊, 其从顶部朝向板主体延伸, 总体延伸方向分别与第一波纹、第二波纹和高度方向交叉。凹坑部包括四个, 每个凹坑部位于一个象限中、形成于第一波纹的外侧面上并夹在第一波纹的第一波峰与脊之间, 相对于第一波纹的外侧面向内凹入。根据本发明, 交汇结构可以使交汇位置的上下表面具有均一线长度, 从而实现均一的厚度, 避免过度减薄, 实现更好的结构强度和抗疲劳特性。