

Title (en)  
METHOD FOR MANUFACTURING A BENDED GLASS SHEET, MANUFACTURING SYSTEM FOR EXECUTING THE METHOD, BENDED MIRROR ASSEMBLY WITH THE BENDED MIRROR AND USE OF THE BENDED MIRROR OR THE ASSEMBLY WITH THE BENDED MIRROR

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER GENEIGTEM GLASPLATTE, HERSTELLUNGSSYSTEM ZUR AUSFÜHRUNG DES VERFAHRENS, GENEIGTE SPIEGELANORDNUNG MIT EINEM GENEIGTEN SPIEGEL UND VERFAHREN ZUR VERWENDUNG DES GENEIGTEN SPIEGELS ODER DER ANORDNUNG MIT DEM GENEIGTEN SPIEGEL

Title (fr)  
PROCEDE DE FABRICATION D'UNE PLAQUE DE VERRE COURBE, SYSTEME DE FABRICATION PERMETTANT LA MISE EN OEUVRE DE CE PROCEDE, ENSEMBLE MIROIR COURBE POURVU DE CE MIROIR COURBE ET UTILISATION DUDIT MIROIR OU DUDIT ENSEMBLE

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Application  
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Abstract (en)  
[origin: WO2011029852A1] The present invention relates to a method for manufacturing a bended glass sheet with a permanent glass sheet bending. The method (cold bending of a glass sheet) comprises following steps : a) Providing a tempered flat precursor glass sheet with a glass sheet thickness selected from the range between 2 mm and 10 mm; b) bending the tempered flat precursor glass sheet with the aid of an external bending force such, that a bended glass sheet with a glass sheet bending results; and c) fixing the glass sheet bending of the bended glass sheet such, that the permanent glass sheet bending results; wherein the bending the tempered flat precursor glass sheet is executed at a bending temperature which is selected from the range between 0°C and 70°C. In a preferred embodiment the bending temperature is selected from the range between 0°C and 50°C and particularly from the range between 0°C and 40°C. Moreover a manufacturing system for executing the method with is provided. The use of the method relates to the manufacturing of a bended mirror with a permanent mirror bending. For instance, a tempered glass sheet is coated with a multilayer stack with a reflecting layer containing Silver. This coated glass sheet is brought into the desired parabolic shape by the described bending process. In view of a solar field application it is advantageous that instead of 2 or 3 mirrors one "long" mirror can be used. This reduces the costs and improves the optical performance. The bended mirror or the assembly with the bended mirror is used as a sunlight concentrator.

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Citation (search report)  
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Cited by  
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