

Title (en)  
CASE MADE OF MAGNESIUM ALLOY

Title (de)  
GEHÄUSE AUS MAGNESIUMLEGIERUNG

Title (fr)  
COUCHE CÉMENTÉE EN ALLIAGE DE MAGNÉSIUM

Publication  
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Application  
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Abstract (en)  
The present invention provides a high-quality magnesium alloy case having a complex shape in which formability is ensured by specifying the composition of the magnesium alloy and setting the amount of internal impurities to an appropriate value or below, and the present invention is a magnesium alloy case comprising a superplastica body formed by the superplastic forming of a magnesium alloy sheet material, which is containing 1.0 to 10.0 mass% of aluminum, 0.5 to 3.0 mass% of zinc, and 0.1 to 0.8 mass% of manganese as a part of added alloy elements and has an oxygen concentration of 300 mass ppm or less, and the case having a structure being inhibited in cavity formation during the superplastic forming, and in accordance with the present invention, it is possible to manufacture and provide a magnesium alloy case having a complex shape through superplastic forming by accurately regulating the composition and impurities content of the magnesium alloy sheet material. The magnesium alloy case in accordance with the present invention can be actively applied, for example, to cases of household electronic products.

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