

Title (en)  
LASER CUTTING METHOD AND DEVICE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM LASERSCHNEIDEN

Title (fr)  
PROCEDE ET DISPOSITIF DE DECOUPE LASER

Publication  
**EP 0874712 A1 19981104 (FR)**

Application  
**EP 97900222 A 19970102**

Priority  
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• FR 9600177 A 19960104

Abstract (en)  
[origin: WO9725178A1] A laser cutting method using a cutting head (10) comprising a laser beam source (F) such as a carbon dioxide laser, and an oxygen feed nozzle (13). To cut thick products (1), e.g. made of a ceramic or iron-carbon alloy, a cooling fluid (19) such as water is delivered onto the surface of the product to be cut on the cutting head side thereof and a negative pressure of at least 0.25 bars relative to the pressure on the cutting head side is generated on the other side of said product. The negative pressure is generated, e.g., by means of a pressure-regulated suction chamber (20) in sealing engagement with the product surface. The method is useful for laser cutting thick products such as steel sheets having a thickness of 10-30 mm.

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IPC 8 full level  
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