

Title (en)  
METAL MASK MATERIAL AND PRODUCTION METHOD THEREFOR

Title (de)  
METALLMASKENMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
MATÉRIAU POUR MASQUE MÉTALLIQUE, ET PROCÉDÉ DE FABRICATION DE CELUI-CI

Publication  
**EP 3508285 A1 20190710 (EN)**

Application  
**EP 17846646 A 20170831**

Priority  
• JP 2016169881 A 20160831  
• JP 2017031349 W 20170831

Abstract (en)  
Provided are: a metal mask material the shape change of which after etching is suppressed and which is preferable in order to achieve good resist adhesiveness and good etching workability; and a production method for the metal mask material. The metal mask material has a surface roughness in the rolling direction and a surface roughness in a direction perpendicular to the rolling direction, which satisfy  $0.05\text{ }\mu\text{m}\leq\text{Ra}\leq0.25\text{ }\mu\text{m}$  and  $\text{Rz}\leq1.5\text{ }\mu\text{m}$ . The metal mask material has a skewness Rsk of 0 or greater in the direction perpendicular to the rolling direction. When a sample having a length of 150 mm and a width of 30 mm is cut out of the metal mask material and the thickness of the sample is reduced by 60% by etching from one side of the sample, the amount of warpage of the sample is 15 mm or less. The metal mask material has a thickness of 0.10-0.5 mm.

IPC 8 full level  
**B21B 1/22** (2006.01); **B21B 3/02** (2006.01); **C21D 9/46** (2006.01); **C22C 19/03** (2006.01); **C22C 38/00** (2006.01); **C22C 38/08** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP KR)  
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Cited by  
EP3805415A1; EP4163407A1

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Designated extension state (EPC)  
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**EP 3508285 A1 20190710**; **EP 3508285 A4 20200513**; **EP 3508285 B1 20210929**; CN 109641248 A 20190416; CN 109641248 B 20210406; JP 6646882 B2 20200214; JP WO2018043642 A1 20190624; KR 102164912 B1 20201013; KR 20190030754 A 20190322; WO 2018043642 A1 20180308

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