

Title (en)  
Sheet cutting apparatus

Title (de)  
Vorrichtung zum Schneiden von blattförmigem Gut

Title (fr)  
Dispositif pour la coupe de matériaux en feuille

Publication  
**EP 0780198 A1 19970625 (EN)**

Application  
**EP 96120481 A 19961219**

Priority  
JP 33467595 A 19951222

Abstract (en)  
A sheet cutting apparatus is composed of a guide rail (21c) extending in a predetermined direction, a fixed blade (22) arranged in parallel with the guide rail (21c), a rotary blade (27) for rotating in contact with the fixed blade (22), a blade carriage (24) for rotatably supporting the rotary blade (27) and moving along the guide rail (21c), together with the rotary blade (27), and a driving mechanism (25, 30, 31) for driving the blade carriage (24) and the rotary blade (27) to cut a sheet supplied to the fixed blade (22). Particularly, the driving mechanism includes a single spherical rolling element (30) for rotating in contact with the guide rail (21c) and the rotary blade (27), and a rolling element supporting member (31) for supporting the spherical rolling element (30) within a space where the spherical rolling element (30) pushes a point of a rotary blade (27) plane except for a first straight line which extends in the predetermined direction through a center of the rotary blade (27) and a second straight line which extends in a direction perpendicular to the first straight line through the center of the rotary blade (27). <IMAGE>

IPC 1-7  
**B26D 1/20**

IPC 8 full level  
**B26D 1/18** (2006.01); **B26D 1/20** (2006.01); **B26D 5/08** (2006.01)

CPC (source: EP)  
**B26D 1/205** (2013.01); **B26D 5/08** (2013.01)

Citation (search report)  
• [DA] JP H05200694 A 19930810 - ONISHI LIGHT KOGYOSHO KK, et al  
• [A] US 5307716 A 19940503 - ONISHI TAKAMASA [JP], et al

Cited by  
EP1493540A3; US8424435B2; WO2008124837A3

Designated contracting state (EPC)  
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