

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>

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IPC 8 full level
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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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EP 0780198 A1 19970625; **EP 0780198 B1 20020116**; DE 69618555 D1 20020221; DE 69618555 T2 20021121; JP H09174485 A 19970708; MY 118761 A 20050131

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