

Title (en)  
PAPER SHEET SENSING DEVICE

Title (de)  
PAPIERBLATTERFASSUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE DÉTECTION DE FEUILLE DE PAPIER

Publication  
**EP 3509041 A4 20200401 (EN)**

Application  
**EP 17845899 A 20170710**

Priority  
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Abstract (en)  
[origin: EP3509041A1] The present invention provides a sheet detection device (10) capable of detecting a variety of sheets including a variety of transparent portions. The sheet detection device (10) is configured to detect a sheet including a transparent portion (2) transmitting light in a visible range and being transported along a transport path (11), the device (10) including: at least one ultraviolet light source (20) configured to apply ultraviolet light to the transport path (11); at least one photodetector (30) configured to detect the ultraviolet light applied by the at least one ultraviolet light source (20); and a detector (40) configured to detect the sheet based on an output signal from the photodetector (30).

IPC 8 full level  
**G07D 9/00** (2006.01); **G01N 21/33** (2006.01); **G01N 21/59** (2006.01); **G07D 7/12** (2016.01); **G07D 7/121** (2016.01)

CPC (source: EP)  
**G07D 7/12** (2013.01); **G07D 7/121** (2013.01)

Citation (search report)  
• [X1] US 2001035603 A1 20011101 - GRAVES BRADFORD T [US], et al  
• [X1] US 5640463 A 19970617 - CSULITS FRANK M [US]  
• [X1] WO 9948042 A1 19990923 - CUMMINS ALLISON CORP [US]  
• [A] JP 2014199242 A 20141023 - VIENEX CORP  
• [A] JP H1040436 A 19980213 - FURUKAWA ELECTRIC CO LTD, et al  
• See references of WO 2018042889A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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