

Title (en)
MAGNETIC SENSING DEVICE AND BILL VALIDATOR

Title (de)
MAGNETISCHE ERFASSUNGSVORRICHTUNG UND BANKNOTENÜBERPRÜFUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE DÉTECTION MAGNÉTIQUE ET VALIDATEUR DE BILLETS

Publication
EP 2835660 A4 20160106 (EN)

Application
EP 13772401 A 20130321

Priority
• JP 2012085472 A 20120404
• JP 2013058001 W 20130321

Abstract (en)
[origin: EP2835660A1] A magnetism detecting device that can achieve a high gain and can also detect magnetism without being affected by an offset voltage, and a banknote identifying apparatus that includes such a magnetism detecting device are configured. A magnetism detecting device (101) includes a magnetic sensor (1) that is provided with a resistive voltage divider circuit including a magnetoresistive element (R1), an alternating current amplifier circuit (20) that subjects an output signal of the magnetic sensor (1) to alternating current amplification, an integrating circuit (30) that integrates an output signal of the alternating current amplifier circuit (20), and a differential amplifier circuit (40) that subjects the output signal of the alternating current amplifier circuit (20) and an output signal of the integrating circuit (30) to differential amplification.

IPC 8 full level
G01R 33/09 (2006.01); **G07D 7/04** (2016.01)

CPC (source: EP US)
G07D 7/04 (2013.01 - EP US)

Citation (search report)
• [IY] JP H0138485 Y2 19891117
• [Y] WO 2012015012 A1 20120202 - MITSUBISHI ELECTRIC CORP [JP], et al
• [A] US 5608318 A 19970304 - YASUI KATSUAKI [JP]
• See references of WO 2013150896A1

Cited by
EP3309570A4

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

DOCDB simple family (publication)
EP 2835660 A1 20150211; EP 2835660 A4 20160106; EP 2835660 B1 20171129; CN 104169734 A 20141126; CN 104169734 B 20170322; JP 5930024 B2 20160608; JP WO2013150896 A1 20151217; KR 101614102 B1 20160420; KR 20140137386 A 20141202; WO 2013150896 A1 20131010

DOCDB simple family (application)
EP 13772401 A 20130321; CN 201380015073 A 20130321; JP 2013058001 W 20130321; JP 2014509101 A 20130321; KR 20147026602 A 20130321