

Title (en)  
TRANSFORMER DEVICE

Title (de)  
TRANSFORMATORVORRICHTUNG

Title (fr)  
DISPOSITIF DE TRANSFORMATEUR

Publication  
**EP 3382724 A1 20181003 (EN)**

Application  
**EP 18162449 A 20180319**

Priority  
JP 2017066589 A 20170330

Abstract (en)  
Two wire materials for coils can be efficiently processed into the same winding state and a configuration in which various characteristics and a cost thereof fall within a predetermined range is formed. Provided is a transformer device to be mounted in a LAN for networking, in which a wire material 11A for a primary coil and a wire material 11B for a secondary coil are wound around an annular core 31 to allow a signal component to pass from the wire material 11A for the primary coil to the wire material 11B for the secondary coil, wherein the wire material 11A for the primary coil is formed of a one-layer insulating wire material, and the wire material 11B for the secondary coil is formed of a three-layer insulating wire material, respectively, and the wire materials are wound around the core 31 in the form of a twisted wire (11) formed by intertwisting two insulating wire materials 11A and 11B.

IPC 8 full level  
**H01F 30/16** (2006.01); **H01F 17/06** (2006.01); **H01F 27/28** (2006.01); **H01F 27/29** (2006.01); **H01F 27/32** (2006.01)

CPC (source: EP)  
**H01F 17/062** (2013.01); **H01F 27/2895** (2013.01); **H01F 27/292** (2013.01); **H01F 27/32** (2013.01); **H01F 30/16** (2013.01)

Citation (applicant)  
• JP H0729755 A 19950131 - TOP DENSHI KK  
• JP H04328812 A 19921117 - SAITO YOSHIKO

Citation (search report)  
• [Y] WO 2010045578 A1 20100422 - MOLEX INC [US], et al  
• [Y] US 4063109 A 19771213 - VAN DER MARK JACOBUS  
• [YD] JP H04328812 A 19921117 - SAITO YOSHIKO  
• [YD] JP H0729755 A 19950131 - TOP DENSHI KK

Cited by  
EP3780029A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3382724 A1 20181003**; **EP 3382724 B1 20200819**; JP 2018170397 A 20181101; JP 6816609 B2 20210120

DOCDB simple family (application)  
**EP 18162449 A 20180319**; JP 2017066589 A 20170330