

Title (en)
SHIELDED CABLE ASSEMBLY

Title (de)
ABGESCHIRMTE KABELANORDNUNG

Title (fr)
ENSEMBLE CÂBLE BLINDÉ

Publication
EP 3096331 A1 20161123 (EN)

Application
EP 16170209 A 20160518

Priority
US 201514717345 A 20150520

Abstract (en)
A shielded cable assembly 100 capable of transmitting signals at speeds of 3.5 Gigabits per second (Gb/s) or higher without modulation or encoding over a single pair of conductors (102b, 104b). The cable 100 has a characteristic impedance of 95 Ohms and can support transmission data according to either USB 3.0 or HDMI 1.4 performance specifications. The wire cable (100f) includes a pair of conductors, a shield (116, 124) surrounding the conductors, and a dielectric structure (113) configured to maintain a first predetermined spacing between the conductors and a second predetermined spacing between the conductors (102b, 104b) and the shield (116, 124). The shield includes an inner shield (116) conductor enclosing the dielectric structure (113) and an outer shield (124) conductor enclosing the inner shield (116) conductor.

IPC 8 full level
H01B 11/20 (2006.01)

CPC (source: CN EP KR)
H01B 7/0045 (2013.01 - CN); **H01B 7/02** (2013.01 - KR); **H01B 7/17** (2013.01 - CN); **H01B 7/18** (2013.01 - CN); **H01B 7/1895** (2013.01 - CN); **H01B 11/18** (2013.01 - KR); **H01B 11/1839** (2013.01 - KR); **H01B 11/1869** (2013.01 - KR); **H01B 11/20** (2013.01 - KR); **H01B 11/203** (2013.01 - EP); **H01R 13/6592** (2013.01 - CN); **H01B 11/002** (2013.01 - EP)

Citation (applicant)
US 8485853 B2 20130716 - SEIFERT KURT P [US], et al

Citation (search report)
• [XY] EP 2779176 A2 20140917 - DELPHI TECH INC [US]
• [X] EP 1267362 A1 20021218 - NEXANS [FR]
• [Y] US 2011232941 A1 20110929 - SUGIYAMA TAKAHIRO [JP], et al

Cited by
CN114814958A; WO2022174944A1; US11637405B2; US12100915B2

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 3096331 A1 20161123; EP 3096331 B1 20171213; CN 106169677 A 20161130; CN 106169677 B 20191119; KR 20160137381 A 20161130

DOCDB simple family (application)
EP 16170209 A 20160518; CN 201610334522 A 20160519; KR 20160059948 A 20160517