

Title (en)
Electrically conductive paper structure

Title (de)
Elektrisch leitendes Papiergefüge

Title (fr)
Structure de papier conductrice d'électricité

Publication
EP 2770104 B1 20160504 (DE)

Application
EP 14156382 A 20140224

Priority
DE 102013101899 A 20130226

Abstract (en)
[origin: EP2770104A1] Electrically conductive paper fabric comprises fiber materials, preferably cellulose containing fiber materials and carbon fibers, chemical additives and residual moisture content. The mixing ratio of the specific resistance of the paper fabric is 10^{-1} to 10^{-6} $\sim \Omega$ m. An independent claim is also included for producing the paper fabric, comprising providing a suspension of cellulose containing fiber and water, adding at least one chemical additive, adding the carbon fibers, dewatering the pulp suspension and preparation of electrically conductive paper fabric, and mechanically dewatering and drying the electrically conductive paper fabric.

IPC 8 full level
C08K 3/04 (2006.01); **D21H 13/50** (2006.01); **D21H 15/02** (2006.01); **H01B 1/24** (2006.01)

CPC (source: EP)
D21H 13/50 (2013.01); **D21H 15/02** (2013.01); **H01B 1/24** (2013.01)

Cited by
EP4372146A1; CN106182340A; CN107613587A; EP2848734A1; EP4231776A1; WO2020224800A1; EP3978233A1; DE102020006085A1; DE102022112515A1; WO2023222777A1; DE102022130277A1; EP3892794A1; WO2021204963A1; WO2021209440A1

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 2770104 A1 20140827; **EP 2770104 B1 20160504**; DE 102013101899 A1 20140828

DOCDB simple family (application)
EP 14156382 A 20140224; DE 102013101899 A 20130226