

Title (en)  
INDUSTRIAL TWO-LAYER WOVEN FABRIC

Title (de)  
ZWEILAGIGES INDUSTRIELLES VLIESGEWEBE

Title (fr)  
TISSU INDUSTRIEL À DEUX COUCHES

Publication  
**EP 3476989 A1 20190501 (EN)**

Application  
**EP 16915639 A 20160906**

Priority  
JP 2016076093 W 20160906

Abstract (en)  
[Problem] To provide, in a woven fabric in which the yarn diameters of upper and lower warps are different, an industrial two-layer woven fabric having improved wear resistance, surface smoothness and marking characteristics, and having a long life by adjusting the balance between warps and wefts. [Solution] This industrial two-layer woven fabric is an industrial woven fabric in which an upper-surface-side woven fabric made of upper-surface-side warps and upper-surface-side wefts and a lower-surface-side woven fabric made of lower-surface-side warps and lower-surface-side wefts are joined by a joining yarn, wherein: a portion of the lower-surface-side warps is a lower-surface-side warp joining yarn that functions as the joining yarn for joining the upper-surface-side woven fabric and the lower-surface-side woven fabric by being woven with the upper-surface-side wefts; the yarn diameter of the lower-surface-side warp joining yarn and the yarn diameters of the respective upper-surface-side warps are all the same; and the yarn diameters of the respective lower-surface-side warps that do not function as the joining yarn are all the same and are greater than the yarn diameter of the upper-surface-side warps and the lower-surface-side warp joining yarn.

IPC 8 full level  
**D03D 11/00** (2006.01); **D21F 1/10** (2006.01)

CPC (source: EP US)  
**D03D 11/00** (2013.01 - EP US); **D21F 1/0036** (2013.01 - EP); **D21F 11/00** (2013.01 - EP)

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 3476989 A1 20190501**; **EP 3476989 A4 20200311**; CA 3035858 A1 20180315; JP WO2018047219 A1 20190627;  
US 2021254245 A1 20210819; WO 2018047219 A1 20180315

DOCDB simple family (application)  
**EP 16915639 A 20160906**; CA 3035858 A 20160906; JP 2016076093 W 20160906; JP 2018537745 A 20160906; US 201616330687 A 20160906