

Title (en)
ELECTRICALLY CONDUCTIVE COMBINATION YARN, AND TEXTILE MADE OF THE SAME

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Application
EP 86114856 A 19861025

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Abstract (en)
[origin: US4840202A] A fabric according to the invention is made by weaving electrically nonconductive lower ply warp yarns together with electrically nonconductive lower ply filling yarns in a 1/1 plain weave. Within a pattern repeat, 4 electrically nonconductive upper ply filling yarns are additionally interwoven in a plain weave fashion with 4 electrically nonconductive upper ply filling yarns. Two electrically conductive combination yarns, as warp yarns within a pattern repeat, are interwoven with all electrically nonconductive upper ply filling yarns within the pattern repeat into a 2/2 twill weave opposite to the twill woven upper ply warp yarns. The nonconductive filling yarns of the lower ply thus provide an additional supporting effect for the electrically conductive combination yarns. By these means, the electrically conductive combination yarns are stressed substantially less by bending, thus not breaking, whereby the electrical conductivity is thus retained and the functional life is prolonged. The fabrics find use as clean room textile flat goods and in wearing apparel for clean rooms.

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CPC (source: EP US)
D02G 3/441 (2013.01 - EP US); **D03D 15/67** (2021.01 - EP US)

Cited by
JP4755797B2; US10519575B2; US7365031B2; WO0175778A1; US8298968B2; US8669195B2; JP2003529901A

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