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(54) Title: PENETRATION–RESISTANT MATERIAL COMPRISING FABRIC WITH HIGH LINEAR DENSITY RATIO OF TWO SETS OF THREADS

(57) Abstract

The invention pertains to a penetration–resistant material comprising at least a double layer of fabric composed of two layers of woven fabric which are cross–plied at an angle, characterized in that the fabric is composed of a first set of threads comprising 3.5 to 20 threads/cm and having a linear density of at least 420 dtex, and a second set of threads comprising 0.5 to 8 threads/cm and having a linear density of at least 50 dtex, with the second set of threads being transverse to the first set of threads, and wherein the ratio of the linear density of the first set of threads to the linear density of the second set of threads is > 4.2, more preferably > 7.5. In a preferred embodiment the first set of threads is warp threads made of p–aramid yarn and the second set of threads is weft threads of polyester yarn, and the ratio of the number of threads/cm of the first set to that of the second set is > 1.