

Technical Archive info for Nonwovenn Website – as at 16 SEPTEMBER 2024

	PATENT TITLE & NUMBER	ABSTRACT	PRIORITY / APPLICATION DATE
PouchTech			
1	International (WO) Patent App. No: PCT/EP2021/060597 NONWOVEN FABRIC FOR ORAL POUCHED PRODUCT, AND METHODS OF MANUFACTURING A NONWOVEN FABRIC	A nonwoven fabric for manufacturing an oral pouched product, where the nonwoven fabric is chewable to increase its liquid permeability. When the nonwoven fabric is used to form a pouch, it may thus control the release of substances from within the pouch. The nonwoven fabric can be formed by applying a diffusion restricting treatment to a base nonwoven fabric. The diffusion restricting treatment may include any of (a) incorporating a digestible compound; (b) incorporating a superabsorbent polymer; (c) incorporating a hydrophobic material; and (d) forming a deformable barrier layer.	27 April 2020
2.	International (WO) Patent Application No: PCT/EP2022/052411 NONWOVEN FABRIC FOR ORAL POUCHED PRODUCT, AND METHODS OF MANUFACTURING A NONWOVEN FABRIC	A nonwoven fabric for use as packaging in an oral pouched product, where the nonwoven fabric comprises a web of chemically bonded staple fibres in which a relative proportion of staple fibres and a binder is selected in conjunction with a density of the fabric to strike an optimal balance in achieving a fabric that provides a soft (e.g. low friction) mouthfeel, a wet strength capable of withstanding manipulation in a user's mouth (e.g. chewing, sucking or the like), and a resistance to unwanted leaching or leaking of flavouring or other fine particle substances used in modern oral products.	5 February 2021

3.	<p>International (WO) Patent Application No: PCT/EP2021/082091</p> <p>CHEWABLE PRODUCT FOR ORAL DELIVERY OF A SUBSTANCE, AND METHOD OF MANUFACTURING THE SAME</p>	<p>A chewable product for oral delivery of a substance. The chewable product is an essentially homogenous portion of nonwoven fabric impregnated with the substance. For example, the chewable product may comprise a nonwoven fabric substrate having a matrix of interleaved fibres. The substance is held within the matrix and releasable therefrom by a chewing action. The nonwoven fabric substrate thus provides a frame for carrying the substance that is both resistant to chewing action (i.e. does not disintegrate when chewed, bitten or sucked) and capable of releasing the substance. The nonwoven fabric substrate may be formed by passing an initial web through a needle loom. The substance may be connected to fibres in the matrix by a binder.</p>	<p>27 November 2020</p>
4.	<p>International (WO) Patent Application No: PCT/EP2022/052786</p> <p>NONWOVEN FABRIC; POUCHED PRODUCT AND RELATED METHODS</p>	<p>The present invention provides a nonwoven fabric comprising a non-fibrous binder having certain solubility characteristics. It also provides a pouched product, the fabric and contents of which have certain solubility characteristics. Related methods are also disclosed.</p>	<p>5 February 2021</p>
5	<p>United Kingdom (GB) Patent Application No: 2317246.3</p> <p>NONWOVEN PRODUCT FOR ORAL DELIVERY OF A SUBSTANCE, AND METHOD OF MANUFACTURING THE SAME</p>	<p>The invention provides a product for oral delivery of a substance in which the substance is retained with a layered structure of nonwoven materials that provides structural integrity capable of withstanding a chewing action, together with a desirable mouth feel and appealing product form factor. In one embodiment, the substance is a gel material that is held within a plurality of layers of nonwoven fabric that are secured together as a consolidated web by physical consolidation technique such as hydroentanglement, stitching, embossing, needle felting/punching.</p>	<p>10 November 2023</p>
<p>CBRN (Protech)</p>			
1.	<p>International (WO) Patent Application No: PCT/EP2021/085767</p> <p>FILTER MATERIAL (CARBON GRANULES)</p>	<p>The present invention relates to protective materials and particularly, although not exclusively, to materials suitable for use in CBRN (Chemical, Biological, Radiological and Nuclear) protective fabrics or filtration fabrics, and methods for manufacturing such materials. The present inventors have found that by control of the adhesive with which carbon particles are adhered to fabric layers which sandwich it, the efficacy of adhesion can be improved and thus the efficacy of the protective qualities of the material increased. In particular, the locations of dots of adhesive used has been found to be important in securing these advantages.</p>	<p>15 December 2020</p>

2.	<p>United Kingdom (GB) Patent Application No: 2319669.4</p> <p>USE OF MATERIAL FOR ADSORPTION OF COMPOUNDS, AND PROTECTIVE GARMENT</p>	<p>The invention relates to methods for the prevention of carcinogen transport across fabrics, in particular those fabrics used to make garments for first responders such as firefighters. The methods involve the use of particular fabrics in particular configurations to block transport of the challenge chemicals.</p>	<p>20 December 2023</p>
3.	<p>International (WO) Patent Application No: PCT/EP2024/069995</p> <p>USE OF MATERIAL FOR ADSORPTION OF COMPOUNDS, AND PROTECTIVE GARMENT</p>	<p>The invention relates to methods for the prevention of carcinogen transport across fabrics, in particular those fabrics used to make garments for first responders such as firefighters. The methods involve the use of particular fabrics in particular configurations to block transport of the challenge chemicals.</p>	<p>15 July 2024</p>