

RNS REACH
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Directa Plus plc
("Directa Plus", the "Group" or the "Company")

New patent granted for air filtration market

G+ graphene deployed as a novel antimicrobial solution for air conditioning units which Directa Plus and an Industrial partner will showcase at Index 2023

Directa Plus (AIM: DCTA), a leading producer and supplier of graphene nanoplatelets based products for use in consumer and industrial markets, has been granted an Italian patent for its G+[®] graphene technology for air-filtering applications.

The patent, filed with a priority date of 29 December 2020, covers the use of G+[®] graphene technology for air-filtering applications, such as automotive and heating, ventilation and air conditioning (HVAC) applications. G+[®] graphene has huge potential in the air filtration market due to its antibacterial and antiviral qualities that maintain filter cleanliness, particularly during and after the filtering process. Other future benefits that G+[®] graphene can offer to filtering elements include: electrical sanitation, flame retardancy and thermal management.

Directa Plus has been working with its industrial partner, a global chemicals and materials company, on an exclusive basis since December 2021 to develop specific products for the global air and water filtration markets. The latest product, which uses G+ as a novel antimicrobial solution for air conditioning units, will be showcased at Index 2023, the world's leading nonwovens exhibition, in Geneva in April 2023. Index hosts suppliers and customers from 100 countries at a four-day event where they can learn about the latest technologies and seek competitive insights.

Following the grant of the patent, Directa Plus' IP portfolio comprises 22 patent families, with 81 patents granted and 36 patents pending.

Commenting, Giulio Cesareo, Founder and CEO of Directa Plus, said: *"Being awarded this new patent in the air filtration market demonstrates the breadth and depth of our graphene technology that can be used across a range of potential high growth markets. This partnership and the newly developed and patented product is a clear response to the growing activity in the global air and water filtration markets and the demand for higher performant products. We are excited about the opportunity in front of us as we enter this expanding market."*

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Notes to Editors

Directa Plus (www.directa-plus.com) is one of the largest producers and suppliers of graphene-based products for use in consumer and industrial markets. The Company's graphene manufacturing capability uses proprietary patented technology based on a plasma super expansion process. Starting from natural graphite, each step of Directa Plus' production process - expansion, exfoliation and drying - creates graphene-based materials and hybrid graphene materials ready for a variety of uses and available in various forms such as powder, liquid and paste.

This proprietary production process uses a physical process, rather than a chemical process, to process graphite into pristine graphene nanoplatelets, which enables Directa Plus to offer a sustainable, non-toxic product, without unwanted by-products. Directa Plus' products are made of hybrid graphene materials and graphene nano-platelets. The products (marketed as G+[®]) have multiple applications due to their properties. These G+[®] products can be categorised into various families, with different products being suitable for specific practical applications.

Directa Plus was established in 2005 and is based in Lomazzo (Como, Italy) and has been listed on the AIM market of the London Stock Exchange since May 2016. Directa Plus holds the Green Economy Mark from London Stock Exchange which recognises companies that contribute to the global green economy.

Index 23 is the world's leading nonwovens exhibition - www.indexnonwovens.com/en