

CN Respiratory Solutions Ltd announces UK patent grant for innovative respiratory treatment technology

For immediate release

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CN Respiratory Solutions Ltd has been granted UK Patent GB2642565 for an innovative respiratory technology that allows nebulised medication and controlled oxygen delivery to be administered together through a single treatment device.

The patent describes a novel fluid-mixing connector that combines a nebuliser with a Venturi oxygen-delivery device, enabling the two therapies to be delivered concurrently. The technology is designed to work with established respiratory equipment, including standard nebulisers and commonly available oxygen delivery masks.

It addresses a practical challenge in respiratory care: giving patient's nebulised treatment while also maintaining controlled or fixed-rate oxygen delivery — currently difficult to achieve simultaneously with existing equipment.

Product development underway

The grant of the patent is an important milestone for CN Respiratory Solutions as development of the technology towards a commercial medical device continues. Progress to commercialisation is well underway in partnership with a well-known, motivated, and reputable medical device manufacturer.

Ian Bullock. Managing Director at CN Respiratory Solutions Ltd, said:

“The grant of the patent is a huge moment for CN Respiratory Solutions. We developed the technology to address a very practical problem in respiratory care – the risk of hypercapnia in COPD patients with the current sub-optimal provision of 2 competing treatments, both of which are essential, and neither of which can currently be given concurrently.”

“Securing patent protection has been an essential foundation as product development progresses and the technology moves towards commercial use.”

“ The current product is a low-cost, simple single-use device that will be relevant in all healthcare settings, including low, and middle-income countries”

The company believes the technology has potential applications in acute and emergency respiratory care.

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About CN Respiratory Solutions Ltd

CN Respiratory Solutions Ltd is a UK medical technology company developing innovative solutions for respiratory care.

The company's principal technology is protected by UK Patent GB2642565, *Fluid mixing device*, granted on 26 August 2026.

Patent: GB2642565

Proprietor: CN Respiratory Solutions Ltd

Inventor: Ian Bullock

Editor's Note

Chronic obstructive pulmonary disease (COPD) is the third leading cause of death worldwide, causing an estimated 3.4 million deaths in 2023, according to the World Health Organization.

Nearly 90% of COPD deaths in people under age of 70 occur in low and middle-income countries, and the overall disease burden has almost doubled in the last 30 years.

Nebulisers are an established method of delivering inhaled medication and are used across a range of respiratory conditions. The global nebuliser market is expected to continue growing over the coming decade.

The potential market for CN Respiratory Solutions' technology will be focused on the initial attendance and admission phase of most hospital stays in which patients are needing repeated nebuliser treatments, and are most at risk of struggling with hypercapnia – which this new nebuliser design is aiming to avoid.

Exact numbers of A&E attendances worldwide are difficult to determine, but are believed to be in the region of tens of millions. (*279 attendances per 100,000 population/year in USA ratioed up to world population of 8.3 billion gives a number of approximately 25 million*)

The patented technology has been designed around established treatment regimens, allowing it to complement existing equipment rather than requiring an entirely new oxygen-delivery platform. The approach is aimed to allow rapid commercialisation and development.