



Ixellion's Aeronautical Services files an application for a new patent of a structural multilayer panel for railway carriages

14 October 2020 - Aeronautical Services has filed an application for a new patent of a structural multilayer panel for railway carriages.

The new composite is made of thermoplastic resin and carries the advantage of being from 30% to 50% lighter than a similar panel made of steel while keeping the same resistance in case of collision.

The panel is also more versatile to shaping and seamlessly blends with glass or carbon fibers. It can be molded with conventional resin thermosetting transformation technologies and has an exceptionally fast response to welding and gluing. It is fully recyclable and has a lower manufacturing cost compared to other thermoplastic technologies.

The composite is also qualified for Fire Protection on Railway Vehicles Norm (UNI EN-45545-2 R7). The result obtained is the highest end of the norm, Hazard Level 3.

About Ixellion

Ixellion is a technology group that promotes the development of innovative materials – with a focus on multi-functional nano-structured composites – as well as the implementation of breakthrough technologies in the aeronautical, railway, automotive and construction sectors, with the aim to create sustainable industrial programs, from blueprint to end of life.

The Company's strategy is to deliver long-term profitable growth and value creation based on 4 key pillars: inorganic growth through acquisitions, organic growth of its newly acquired subsidiaries, investment in the development of revolutionary materials and technologies, re-investment of excess cash flows both in inorganic and organic growth initiatives to drive a "compounding effect".

Founded in 2016, Ixellion has subsidiaries in Italy and in the UK.