



20 November 2025

Fourteen international patent applications filed for Natrium Redox™ technology, expanding global IP protection for near-carbon neutral industrial process

Independent inventor and IP lawyer Marcus Cavalier now has fourteen international patent applications filed with the UK Intellectual Property Office (IPO) under the Patent Cooperation Treaty (PCT). This expands the global intellectual property protection for the near-carbon neutral industrial process technology known as Natrium Redox™. The PCT filing enables applicants to pursue patent protection across multiple jurisdictions while deferring jurisdiction-specific filing costs.

The patents cover all aspects of the integrated chemical process that has been developed for the near-carbon neutral production of feedstocks used in steel & metal alloys, cement and commodity chemicals industries. There are specific patents for iron and manganese making, salt electrolysis, alternative methods for making liquid sodium, lime production, the overall system, plant optimisation, and handling of impurities.

Submission of the applications as part of the Patent Cooperation Treaty provides an 18-month window in which to select the jurisdictions that the Natrium Redox™ technology will be patented.