

PATENTS & TECHNOLOGIES

SHOWCASE 2022

TRANSFORMING CONNECTIONS, FOR THE BETTER



INGENIOUS TECHNOLOGIES FROM THE FLOOR UPWARDS

i4F's vision is to **enhance where people live, work and play with ingenious technologies, from the floor upwards**. Its mission is to continually revolutionize flooring, and beyond, through technological excellence, meaningful innovation and human partnerships.

i4F supports the global flooring industry by licensing cutting-edge solutions in the areas of drop-lock technologies, digital printing, surface finishing - including technologies that imitate ceramic grouts, wall and ceiling installation systems, board and panel compositions as well as manufacturing processes.

Pick and choose the patents or groups of patents that best suit your business needs via i4F's unique **Patent Cluster Concept (PCC)**. i4F's PCC lets licensees decide which technologies will reinforce their market position – or open up new revenue streams as trends change. i4F's PCC also provides full transparency on fees so that licensees can obtain the best return on investment while avoiding unnecessary payments for unused technologies.

i4F believes that even the smallest innovations have the potential to transform not just products, but the lives of the people that use them. It's why the group owns and represents thousands of patents and technologies. And it's why i4F continues to develop more, both independently and with its partners.

i4F has strategic partnerships with the industry's most important IP players, including Hymmen, Classen, Kronospan, HMTX, Windmöller, CFL Flooring, Tarkett, Kingdomfloors, Lico, Benchwick and QuickStyle Industries.

Lock into faster flooring installation

The world's easiest and best flooring installation systems

Flooring systems don't come any faster or easier to fit. In i4F's unique drop-lock system, two technologies come together to make one strong, high-performing floor.

Click4U[®] - Angle system for the long-side, combined with 3L TripleLock[®] on the short side Click4U[®] works seamlessly with 3L TripleLock, enabling extremely high locking strength. Fast and easy to install, no special tools are needed – and it's suitable for existing high speed production machinery.

3L TripleLock[®] - The "original" one piece drop-lock system for the short side

3L TripleLock[®] is the easiest and fastest system for flooring installation on the market, and suitable for existing high speed production. Unlike other systems, no inserts are needed on the short side. That means less work, smaller costs, fewer materials and a lower carbon footprint.



IMPROVED PRODUCTIVITY

STRONG PROVEN PERFORMANCE

SUITABLE FOR HIGH-SPEED MACHINES

INSTALLS UP TO 30% FASTER THAN BASIC CLICK SYSTEMS

> ALL MATERIALS, ALL FORMATS

> > NO INSERTS

MEETS ALL EN PERFORMANCE STANDARDS

DROP-LOCK

Powered by Click4U® and 3L TripleLock®



Lock out water damage

Water-resistant drop-lock technology Powered by i-Click4U[®]



i-Click4U[®] (impermeable-Click4U) is the world's first water-resistant one piece drop-lock flooring installation system, complementing i4F's leading Click4U[®] technology. i-Click4U exceeds all NALFA (North American Laminate Flooring Association) requirements relating to water resistant flooring including the requirement that panels must withstand water for a minimum of 24 hours. The system has also been independently tested and approved by renowned German and French test institutes. Unlike other one piece floor locking systems, i4F's i-Click4U technology eliminates the need for any chemical sprays or additional sealing substances, like wax or paraffin, normally required to prevent water leaking into flooring panel joints.

FAST AND EASY TO INSTALL

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DROP-LOCH

NALFA-APPROVED

NO CHEMICAL SPRAYS OR SEALING SUBSTANCES

Powered by i-Click4U

Perfect pattern change

i4F drop-lock system for herringbone



i4F has launched a new, patented droplock system specifically designed for the installation of herringbone floor panels, whereby a panel's short side fits into the long side of an adjacent panel. The main advantage of this is that it enables easy installation, disassembly and replacements of panels in a herringbone pattern without compromising on high locking strength and the performance characterized by i4F drop-lock technologies. DROP-LOCK

EASY TO INSTALL AND DISASSEMBLE

SUITABLE FOR USE ON ALL MATERIALS

FACILITATES EASY REPLACEMENT OF PLANKS HIGH LOCKING STRENGTH

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Go Digital For Real

Digital Printing for flooring is here!

Cutting-edge digital printing technologies enabling flooring manufacturers to create unique designs, achieve superior optical quality and avoid unnecessary inventory on pre-printed materials.



i4F licenses the world's most advanced digital printing technologies delivering results so close to the real thing it's almost impossible to tell the difference. Cutting-edge technologies immediately available via an i4F license enable the creation of unique designs and avoid unnecessary inventory on pre-printed materials. i4F's strong digital printing portfolio now also includes exclusive access to all Hymmen digital printing technologies, including its awardwinning Digital Lacquer Embossing Plus (DLE +) technology offering unbelievably real optics and haptics.





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DIGITAL PRINTING

ALL MATERIALS

Keep it clean

SURFACE FINISHING

With a True Grout®

i4F has an exclusive patent partnership with Quickstyle Industries, giving i4F the sole licensing rights for Quickstyle's True Grout patent portfolio in all major markets worldwide, including the US, Europe and Asia/Pacific.



14F

Tiles and planks featuring True Grout technology from i4F mimic perfectly the aesthetics of modern 'rectifi ed' ceramics with a grout. True Grout is extremely durable and delivers superior resistance to wear and tear, stains and chemical household agents.

Tiles/planks with True Grout are very easy to install as well as replace, especially when compared to traditional ceramics. Beautiful for both floors and walls. This offers a huge opportunity to extend floor collections to wall applications.

The trend for wet rooms and en-suite bathrooms is driving demand for floor and wall products that imitate ceramics. True Grout technology, only available from i4F, delivers more realistic, visible joints via integrated grout lines for both flooring and wall panels.







Rise to the Surface

Matt is the new Gloss

Matt effect Surface treatment

Not only are matt finishes taking off as the newest trend, but i4F's matt finishing technology also has some serious benefits for flooring; reduced

SURFACE FINISHING

light reflection, less maintenance and better surface performance, all achieved through a sophisticated curing process.

> REDUCED LIGHT REFLECTION

IMPROVED SURFACE PERFORMANCE

LESS MAINTENANCE



Climb the Walls

Drive your flooring business upwards

i4F wall and ceiling installation systems enable flooring manufacturers not only to enter new markets, but to leverage existing designs – by launching new collections that combine flooring, walls and ceilings.



i4F Wall Panel installation System

WALL & CEILING TECHNOLOGIES

i4F has developed a new installation system for locking wall panels. The brand new system enables panels to be either screwed on to slats or glued against a wall. A key innovative aspect is that screws may be fastened into the locking without hindering the installation of the next panel. The new system works on all materials and is moisture as well as heat resistant.

3D Wall Installation System:

New patented installation system enabling three different levels of panels to connect for the creation of an amazing 3D effect on walls.

Installation systems for Walls and Ceiling Panels:

A wall and ceiling panel clicksystem using an innovative profile providing variable joint options for easy installation and diverse design possibilities. A specific locking application for wall panels using glue is also available.





Game Changers

Designed for real life

i4F uses technology and innovation to empower our licensees to create floors, walls and ceilings designed for real life. To produce flooring systems that are tough in sensitive environments. Because the more places our technology can go, the more markets you can move into.



MAINTAINS EVEN LEVEL OF CONDUCTIVITY

WORKS ON ALL TYPES OF ADHESIVES AND SUB-FLOORS

LOW MAINTENANCE

Safety first with static-control, dissipative flooring

A high-performance static dissipative and static conductive flooring solution designed to keep sensitive, hightraffic environments like operating theatres and computer rooms safe. This technology is highly resistant to any issues and easy to maintain.

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Doing it Right

Protecting our planet and reducing costs

Sustainable material savings are good for the industry – and our planet. i4F licenses manufacturing processes that help the global flooring industry achieve its sustainability and cost management goals.



'LEVIOTECH'

OPTIMIZED EXTRUSION PROCESS FOR RIGID POLYMER BOARDS

IMPROVES PRODUCTIVITY 15%+ MATERIAL SAVINGS

LevioTech

i4F's patented extrusion technology helps manufacturers save up to 15% percent on materials in the production of rigid polymer boards. The technology enhances productivity by optimizing the extrusion process during production of expanded polymer core (EPC) and solid polymer core (SPC) panels.





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