

Intellectual Property Summary

Supporting document · North Star Group Investor Document Library North Star Group, Inc. · Fairhope, Alabama · Prepared July 2026

Issued U.S. patents

Eleven U.S. patents issued to Michael Hoffman, assigned to Hydra Heating Industries, LLC. All are verifiable at patents.google.com by number.

Title	Patent No.	Year	Category
Inductive Heater for Fluids	10,560,984 B2	2020	Industrial heating
Inductively Heated Tank Cars	10,525,988 B2	2020	Transportation
Actuating Inductor Placement Assembly	10,556,601 B2	2020	Industrial equipment
Displacement Welding Chamber	10,232,459 B2	2019	Welding systems
Magnetic Closures for Pipe Insulation	10,197,210 B2	2019	Pipe insulation
Frac and Storage Tank Exchanger	9,920,605 B2	2018	Fluid management
Flow Balanced Frac Tank Farm	9,915,127 B2	2018	Fluid management
Magnetic Insulation	9,914,284 B2	2018	Pipe insulation
Pool/Large Tank/Pond Hub Exchanger	9,909,811 B2	2018	Water systems
Magnetic Clasps for Insulation	9,868,268 B2	2018	Pipe insulation
Pool/Large Tank/Pond Exchanger	9,551,206 B2	2017	Water systems

Pending applications

Application	Number	Filed	Field
System and Method for Demand-Gated Geospatial Site Screening with Use-Specific Demand Signals and Multi-Layer Buildable-Area Computation (iVerify)	U.S. Provisional App. No. 64/098,118	June 24, 2026	Geospatial site screening
Integrated Sustainable Housing System	U.S. Provisional App. No. 63/767,801	Filed	Housing technology
Fully Integrated Reinforced Modular SIP System (FIRM)	Patent pending	Filed	Building systems
Interlocking dry-stack brick geometry	U.S. Provisional App. No. 63/955,346	January 7, 2026	Masonry / building systems

The iVerify application covers the platform's core screening methods: per-parcel buildable-area computation by multi-layer constraint fusion, use-specific demand signals including the inversion of operator-registration data into a real-property demand signal, dynamic peer-cohort grading with recency weighting, and demand-gated site advancement.

Disclosure practice

North Star's practice is to file provisional patent applications on core methods before sharing materials, so that investor and partner discussions proceed from filed priority dates rather than from nondisclosure agreements. Filing receipts and application documents are held in the confidential due-diligence dossier, available on request.

This summary is for discussion. Patent scope is defined by the issued claims and, for pending applications, remains subject to examination. Nothing here is legal advice.
