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Redacted Summary: Full document including market overview, exemplary players and product, and possibly EOUs available upon request. Contact: justin@ipapproach.com

BROKERAGE MARKETING PACKAGE

“HVAC SYSTEM”

THIS OFFERING IS FOR SALE OF

US10408486B2	WO2019157111A1	US20200056804A1
US20190346417A1	US20190346170A1	PCT/US19/32201
PCT/US19/32304	16/183,473	16/282,184

Justin Ehrlickman

May 2020

Non-Confidential Marketing Package



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Details of the offering and planned bidding process for purchasing the patent portfolio is outlined below:

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- The owner reserves the right to accept a bid at anytime.
- We will keep all parties who have notified us of their interest in submitting a bid, or who have submitted a bid, reasonably informed throughout the process.
- All information on interested parties — including bidder names, bid amounts, terms, and the winning bidder — will remain confidential.

Thank you for your interest in this patent portfolio sale offering.



IP Approach LLC is pleased to present the attached exclusive patents for sale “**Self-modulating HVAC system**” which includes U.S. Granted Patent **US10408486B2**, Published Patent Applications **WO2019157111A1**, **US20200056804A1**, **US20190346417A1**, **US20190346170A1** and Unpublished Applications **PCT/US19/32201**, **PCT/US19/32304**, **16/183473**, **16/282184** assigned to **Scientific Environmental Design Inc.** The IP relates to a method, a self-modulating HVAC system for improved energy efficiency and performance.

The technology disclosed provides the following advantages:

1. HVAC system can achieve more Sensible BTU output with less power consumed for the same given amount of airflow across the indoor coil at 400 CFM/Ton.
2. HVAC System increases the SEER rating of the unit.
3. Present Invention doesn't cause various structural issues, such as peeling paint, soggy drywall, frame and trim rot from condensation on windows, and mold or mildew growth in carpets.
4. HVAC system is capable of cooling and dehumidifying the air in a home, while maintaining sufficient airflow and energy-efficiency.
5. Self-modulating HVAC system have a cooling coil bypass to maintain an appropriate calculated airflow through the conditioned space while limiting the air that passes over the cooling coil to achieve an optimal sensible BTU rate for energy efficiency without adversely affecting the latent moisture removal side of air conditioning.



The global HVAC systems market size was valued at USD 130.5 billion in 2019 and is projected to register a CAGR of 6.1% from 2020 to 2027. Increasing urbanization and emergence of energy-efficient HVAC systems are the factors driving the market growth. Furthermore, governments across the globe are engaged in promoting the usage of energy-efficient HVAC units by offering incentives and rebate programs. Such programs and initiatives are also anticipated to drive the market growth over the forecast period.

Asia Pacific dominated the global market owing to the climatic conditions, growing population, increasing disposable income, availability of cost-effective systems for more comfort, and rapid urbanization in developing economies. [REDACTED]

[REDACTED]

[REDACTED]



The global net zero energy buildings (NZEB) market stood at \$896.6 million in 2018, and it is expected to reach \$2,106.6 million by 2024, demonstrating a CAGR of 15.6% during the forecast period. A significant increase is noticed in greenhouse gas emissions, owing to burning of fossil fuels for electricity generation. With increasing environmental concerns, a shift toward NZEBs is observed, due to energy conservation and no greenhouse gas emissions. North America held the largest share in the net zero energy buildings market during the historical period and Europe region accounted to be the second largest market.

[REDACTED]



S. No.	Patent No./ Application No.	Title	Priority Date	Filing Date	Publication Date	Status
1.	US10408486 B2	Self-Modulating HVAC System	Oct 24, 2016	Oct 24, 2016	April 26, 2018	Granted. First maintenance fee due 9.11.2023. 10,408,486
2.	WO2019157111 A1	Hvac system for enhanced source-to-load matching in low load structures	Feb 6, 2018	Feb 6, 2019	Aug 15, 2019	National Phase Entry Deadline 8/6/2020
3.	US20200056804 A1	Adaptive modular multicoil hvac system	Aug 14, 2018	Aug 14, 2018	Feb 20, 2020	Response to Office Action due 4.22.2020.
4.	US20190346417 A1	Method and system for air quality analysis, diagnostics, and environmental control	May 14, 2018	Feb 21, 2019	Nov 14, 2019	Awaiting first examination
5.	US20190346170 A1	Task ambient hvac system for distributed space conditioning	May 14, 2018	Feb 21, 2019	Nov 14, 2019	Awaiting first examination



S. No.	Patent No./ Application No.	Title	Priority Date	Filing Date	Status
6.	PCT/US19/32201	Method and System for Indoor Air Quality Analysis and Diagnostics	May 14, 2018	May 14, 2019	National Phase Entry Deadline 8/6/2020
7.	PCT/US19/32304	Task Ambient HVAC System for Distributed Space Conditioning	May 14, 2018	May 14, 2019	National Phase Entry Deadline 11/14/2020
8.	16/183,473	HVAC Fire Suppression System	-	Nov 7, 2018	Awaiting first examination.
9.	16/282,184	HVAC System and Control Methods for Operation within a Microgrid	-	Feb 21, 2019	Awaiting first examination. FOREIGN FILING deadline 4/21/20 (with petition fee).



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THANK YOU!

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