UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NALOX-1 PHARMACEUTICALS, LLC, Petitioner,

v.

OPIANT PHARMACEUTICALS, INC.,
Patent Owner

IPR2019-00694 U.S. Patent No. 9,629,965

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 9,629,965 AS OBVIOUS OVER WYSE



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A. Nalc	A POSA Would Have Been Motivated to Develop Improved Intrana exone Formulations to Combat the Opioid Epidemic	
B. Intra	A POSA Would Have Had the Know-How to Readily Develop an Improvenasal Naloxone Formulation	
1. na	The volume of the nasal cavity naturally limits the volume of a naloxosal spray to about 100 µL per spray	
2. ac	A POSA would have been motivated to use a 4–6 mg naloxone dose hieve desirable naloxone exposure levels.	



3. A POSA would have had adequate know-how and ability to select commonplace excipients to make a stable, well-tolerated intranasal naloxon formulation.
4. A POSA would have been motivated to load an intranasal naloxon formulation into an easy-to-use single-dose, pre-primed nasal sprayer23
VI. CLAIM CONSTRUCTION UNDER 37 C.F.R. § 42.104(b)(3)24
A. "pre-primed"24
B. "patient"
C. "delivery time"
D. "90% confidence interval for dose delivered per actuation is \pm about 2.0% and "95% confidence interval for dose delivered per actuation is \pm about 2.5%"
E. "yields, when intranasally administered to a patient, a mean naloxone plasma concentration" and "yields a mean naloxone plasma concentration in said patient"
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A. Wyse (U.S. Patent No. 9,192,570)
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2. Claim 230
3. Claim 9
4. Claims 10–12
5. Claims 3–5 and 14–16
6. Claims 6–8 and 1340
7. Claim 174
8. Claims 18 and 1942
9. Claim 2042
10. Claims 21, 22, and 2644
10. Claims 21, 22, and 20



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1	1. Claim 25	45
1	2. Claims 29 and 30	46
B. Dju	Ground 2: Claims 23–24 are obvious over Wyse (Nalox1007) in vieupesland (Nalox1010) and HPE (Nalox1012).	
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TABLE OF EXHIBITS

Exhibit Number	Description
Nalox1001	U.S. Patent No. 9,629,965 (the '965 patent)
Nalox1002	Expert Declaration of Maureen Donovan
Nalox1003	Expert Declaration of Günther Hochhaus
Nalox1004	Excerpt of File History of U.S. Patent No. 9,561,177, Aug. 22, 2016 Office Action, Non-Final Rejection (Aug. 22, 2016 Non-Final Rejection)
Nalox1005	Excerpt of File History of U.S. Patent No. 9,561,177, Oct. 21, 2016 Amendment and Response to Office Action (Oct. 21, 2016 Response to Office Action)
Nalox1006	Excerpt of File History of U.S. Patent No. 9,561,177, Dec. 21, 2016 Office Action, Notice of Allowance and Fees Due (Notice of Allowance)
Nalox1007	U.S. Patent No. 9,192,570 (Wyse)
Nalox1008	Chinese Patent No. 1,575,795 (Wang)
Nalox1009	PCT International App. Pub. No. WO00/62757 (Davies)
Nalox1010	Djupesland, P., Nasal Drug Delivery Device: Characteristics and Performance in a Clinical Perspective - A Review, 3 Drug Deliv. & Transl. Res. 42–62 (2013) (Djupesland)
Nalox1011	Grassin-Delyle, S. et al., <i>Intranasal Drug Delivery: An Efficient and Non-invasive Route for Systemic Administration, Focus on Opioids</i> , 134 Pharm. & Ther. 366–79 (2012) (Grassin-Delyle)
Nalox1012	Handbook of Pharmaceutical Excipients, 56–60, 64–66, 78–81, 220–22, 242–44, 270-72, 441–45, 517–22, 596–98 (Rowe, R. et al. eds., 6th ed. 2009) (HPE)
Nalox1013	Kushwaha, S. et al., <i>Advances in Nasal Trans-Mucosal Drug Delivery</i> , (1)7 J. Applied Pharm. Sci. 21–28 (2011) (Kushwaha)
Nalox1014	U.S. Patent No. 5,866,154 (Bahal)
Nalox1015	U.S. Patent No. 8,198,291 (the '291 patent)



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