Paper No. 1

UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

EnviroLogix Inc.
Petitioner

V.

Ionian Technologies, Inc.
Patent Owner

Patent No. 9,562,263 (Claims 1-8 and 10-35)

Issued: February 7, 2017 Filed: October 30, 2013 Inventors: Maples et al.

Title: NICKING AND EXTENSION AMPLIFICATION REACTION FOR THE EXPONENTIAL AMPLIFICATION OF NUCLEIC ACIDS

Inter Partes Review No. 2018-00405

PETITION FOR INTER PARTES REVIEW



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		d.	"combining in a single step, the obtained sample directly with an amplification reagent mixture or diluting the obtained sample and combining, in a single step, the	_



	diluted sample with an amplification reagent mixture, the amplification reagent mixture being free of bumper primers"
e.	"comprising: (i) a polymerase"
f.	" (ii) a nicking enzyme"
g.	" (iii) a first oligonucleotide comprising a 5' portion that comprises a nicking enzyme binding site that is non-complementary to the target polynucleotide sequence and a 3' portion that hybridizes to the target polynucleotide sequence, and (iv) a second oligonucleotide comprising a 5' portion that comprises a nicking enzyme binding site that is non-complementary to the target polynucleotide sequence and a 3' portion that hybridizes to the target polynucleotide sequence"
h.	"subjecting the reaction mixture formed by the step of combining to essentially isothermal conditions to amplify the target polynucleotide sequence without the assistance of bumper primers"
i.	"detecting the amplified target polynucleotide sequence in real time"
j.	"within 10 minutes of subjecting the reaction mixture to essentially isothermal conditions."
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