Paper No. 13 Filed: May 4, 2018

ILLUMINA, INC., Petitioner,

v.

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK Patent Owner.

Case IPR2018-00385 Patent 9,725,480

PATENT OWNER'S PRELIMINARY RESPONSE

Illumina Ex. 1049

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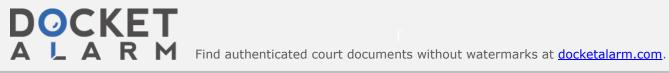


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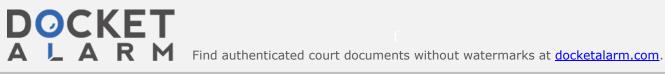


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