PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date | |
|------------------|----------------|--|
| Takaichiro UMEDA | 07/17/2008 | |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number | | | |
|---------------------|----------|--|--|--|
| Application Number: | 12186505 | | | |

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NAME OF SUBMITTER: Sam C. Olive

Total Attachments: 1 source=1140asmt#page1.tif

PATENT REEL: 021343 FRAME: 0368

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ASSIGNMENT

| · | | (1) | Takaichiro UMEDA | (5) | | |
|--------------|---|-----------------|--|---|--|--|
| (1-8) | Insert | (2) | | <u>(6)</u> | | |
| | Name(s) of Inventor(s) | (3) | | | | |
| | | (4) | | (8) | | |
| | | | In consideration of the sum of or of the undersigned, the undersigned | ne dollar (\$1.00) and other good and valuable considerations paid to each d egree(s) to assign, and hereby does assign, transfer and set over to | | |
| (9) | insert Name of Assignee | (9) | BROTHER KOGYO KABUSHIKI KAISHA | | | |
| (10) | haert Address of Assignes | (10) | 15-1 Naeshiro-cho, Mizuho-ku, Nagoya-shi, Aichi-ken 467-8561, Japan | | | |
| | | | (nereinstier designated as the Ass | ignee) the entire right, titte and interest for the United States of America | | |
| (11) | (nsert | (11) | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional, divisional, extensional, reissues and re | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as | | |
| (11) | insert Identification of invention such as Title, Case | (11) | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional, | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as | | |
| (11) | Identification of invention | , , , 1 | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional, divisional, extensional, reissues and re | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as | | |
| (11) | Identification of Invention such as Title, Case Number, or Foreign | , , , 1 | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional, extensions, reissues and re LIQUID-DROPLET EJECTIN (Attorney Docket No. | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as G | | |
| (11) (12) | Identification of invention such as Title, Case Number, or Foreign Application Number Insert Date of Signing of | , , , 1 | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional patent, extensions, reissues and re LIQUID-DROPLET EJECTIN (Altomey Docket No. for which the undereigned has (have | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as G APPARATUS | | |
| (12) | Identification of Invention such as Title, Case Number, or Foreign Application Numbe | 1 or (12) | as defined in 35 U.S.C. §100, in provisional, non-provisional, divisional patent, extensions, reissues and re LIQUID-DROPLET EJECTIN (Altomey Docket No. for which the undereigned has (have | the Invention, and in all applications for patent including any and all onel, continuation, substitute, and relessue application(s), and all Letters examination certificates that may be granted on the invention known as G APPARATUS | | |

- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or retssue application based thereon, for the Invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to Issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict
- 6) The undersigned hereby grant(s) the firm of BAKER BOTTS LLP the power to Insert on this assignment any further identification which may be necessary of desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this

in witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s),

| Date | <u>Jul. 17, 2008</u> | Name of Inventor | Takaichiro | Umeda | | (SEAL) |
|------|----------------------|------------------|------------|-------|---------------------------------------|--------|
| Date | | Name of Inventor | | | | (SEAL) |
| Date | | Name of Inventor | | · | · · · · · · · · · · · · · · · · · · · | (SEAL) |
| Date | | Name of Inventor | | | | (SEAL) |
| Date | | Name of Inventor | | | | (SEAL) |
| Date | | Name of Inventor | | | | (SEAL) |
| Date | | Name of inventor | | | | (SEAL) |

PATENT

REEL: 021343 FRAME: 0369