Table 1: Baseline Model w/o Fixed Effects

|                   | (1)            | (2)            | (3)            |  |  |
|-------------------|----------------|----------------|----------------|--|--|
| Ownership         | 0.951***       | 0.856***       | 0.834***       |  |  |
|                   | (0.003)        | (0.003)        | (0.003)        |  |  |
| Mean Output       |                | 0.00000***     |                |  |  |
|                   |                | (0.000)        |                |  |  |
| Mean Employees    |                |                | 0.00005***     |  |  |
| 1 0               |                |                | (0.00000)      |  |  |
| Constant          | -0.821***      | -0.825***      | -0.828***      |  |  |
|                   | (0.002)        | (0.002)        | (0.002)        |  |  |
| Observations      | 697,094        | 696,256        | 697,094        |  |  |
| Log Likelihood    | -1,997,803.000 | -1,890,830.000 | -1,892,048.000 |  |  |
| Akaike Inf. Crit. | 3,995,610.000  | 3,781,666.000  | 3,784,102.000  |  |  |

Table 2: Baseline Model w/ Fixed Effects

|                     | Dependent variable:     |                     |                         |                     |
|---------------------|-------------------------|---------------------|-------------------------|---------------------|
|                     |                         | Total Pat           | ent Count               |                     |
|                     | (1)                     | (2)                 | (3)                     | (4)                 |
| Ownership           | $0.725^{***}$ $(0.004)$ | $0.000 \\ (0.008)$  | $0.647^{***}$ $(0.004)$ | 0.084***<br>(0.009) |
| Mean Employees      | 0.000***<br>(0.000)     | 0.000***<br>(0.000) | 0.000***<br>(0.000)     | 0.000***<br>(0.000) |
| Deviance            | 3000438.989             | 177987.517          | 2261590.940             | 127215.911          |
| Num. obs.           | 695757                  | 49716               | 639985                  | 49395               |
| Num. groups: Ind    | 414                     | 414                 | 414                     | 414                 |
| Num. groups: Firm   |                         | 29421               |                         | 29421               |
| Num. groups: County |                         |                     | 2404                    | 2404                |

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

Table 3: Secondary Model w/o Fixed Effects

|                                               |                                            |                                            | $Dependent\ variable:$                     |                                         |                                         |
|-----------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------|
| •                                             |                                            | L                                          | Total Patent Count per Type                | Type                                    |                                         |
|                                               | (1)                                        | (2)                                        | (3)                                        | (4)                                     | (5)                                     |
| Ownership                                     | 0.927*** $(0.003)$                         | $0.822^{***}$ (0.003)                      | 0.797***                                   | $0.194^{***}$ $(0.006)$                 | $0.192^{***}$ $(0.006)$                 |
| Mean Output                                   |                                            | 0.0000***                                  |                                            |                                         | 0.00000***                              |
| Mean Employee                                 |                                            |                                            | 0.00004***                                 | 0.00003***                              |                                         |
| Utility Pat                                   |                                            |                                            |                                            | $-0.617^{***}$ (0.005)                  | $-0.618^{***}$ (0.005)                  |
| Inv Pat                                       |                                            |                                            |                                            | $-0.572^{***}$ (0.005)                  | -0.573*** (0.005)                       |
| Ownership*Utility Pat                         |                                            |                                            |                                            | 0.375***                                | 0.486***                                |
| Ownership*Inv Pat                             |                                            |                                            |                                            | 0.289*** (0.008)                        | 0.259*** (0.009)                        |
| Constant                                      | $-0.872^{***}$ (0.002)                     | -0.877*** (0.002)                          | -0.879*** (0.002)                          | 2.273***<br>(0.003)                     | $2.279^{***}$ (0.003)                   |
| Observations Log Likelihood Akaike Inf. Crit. | 737,265<br>-1,836,893.000<br>3,673,789.000 | 736,379<br>-1,736,547.000<br>3,473,100.000 | 737,265<br>-1,739,300.000<br>3,478,607.000 | 50,882<br>-723,069.300<br>1,446,153.000 | 50,757<br>-715,221.600<br>1,430,457.000 |
| Note:                                         |                                            |                                            |                                            | * p<0.1; *                              | *p<0.1; **p<0.05; ***p<0.01             |

Table 4: Secondary Model w/ Fixed Effects

|                       | Dependent variable:         |           |           |           |  |
|-----------------------|-----------------------------|-----------|-----------|-----------|--|
|                       | Total Patent Count per Type |           |           |           |  |
|                       | (1)                         | (2)       | (3)       | (4)       |  |
| Ownership             | 0.09***                     | -0.01     | 0.08***   | 0.02      |  |
|                       | (0.01)                      | (0.01)    | (0.01)    | (0.01)    |  |
| Mean Employee         | 0.00***                     | 0.00***   | 0.00***   | 0.00***   |  |
|                       | (0.00)                      | (0.00)    | (0.00)    | (0.00)    |  |
| Utility Pat           | -0.50***                    | -0.25***  | -0.46***  | -0.25***  |  |
| v                     | (0.00)                      | (0.01)    | (0.01)    | (0.01)    |  |
| Inv Pat               | -0.39***                    | -0.42***  | -0.44***  | -0.43***  |  |
|                       | (0.01)                      | (0.01)    | (0.01)    | (0.01)    |  |
| Ownership*Utility Pat | 0.44***                     | 0.43***   | 0.43***   | 0.45***   |  |
| . ,                   | (0.01)                      | (0.01)    | (0.01)    | (0.01)    |  |
| Ownership*Inv Pat     | 0.33***                     | 0.29***   | 0.27***   | 0.29***   |  |
| 1                     | (0.01)                      | (0.01)    | (0.01)    | (0.01)    |  |
| Deviance              | 1091599.31                  | 239825.24 | 772535.50 | 216857.61 |  |
| Num. obs.             | 50882                       | 50882     | 50882     | 50882     |  |
| Num. groups: ind4     | 414                         | 414       | 414       | 414       |  |
| Num. groups: id       |                             | 29421     |           | 29421     |  |
| Num. groups: county   |                             |           | 2404      | 2404      |  |

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01