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(71) Applicant *(for all designated States except US)*: **Kyoto University** [JP/JP]; 36-1, Yoshida-honmachi, Sakyo-ku, Kyoto-shi, Kyoto, 6068501 (JP).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OKITA, Keisuke** [JP/JP]; c/o Center for iPS Cell Research and Application, Kyoto University, 53 Kawahara-cho, Shogoin, Sakyo-ku, Kyoto-shi, Kyoto, 6068507 (JP). **NAKAGAWA, Masato** [JP/JP]; c/o Center for iPS Cell Research and Application, Kyoto University, 53 Kawahara-cho, Shogoin, Sakyo-ku, Kyoto-shi, Kyoto, 6068507 (JP). **YAMANAKA, Shinya** [JP/JP]; c/o Center for iPS Cell Research and Application, Kyoto University, 53 Kawahara-cho, Shogoin, Sakyo-ku, Kyoto-shi, Kyoto, 6068507 (JP).

(74) Agent: **TAKASHIMA, Hajime**; Meiji Yasuda Seimei Osaka Midosuji Bldg., 1-1, Fushimimachi 4-chome, Chuo-ku, Osaka-shi, Osaka 5410044 (JP).

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(54) Title: METHOD OF EFFICIENTLY ESTABLISHING INDUCED PLURIPOTENT STEM CELLS

(57) Abstract: Provided is a method of producing an iPS cell, comprising bringing (a) Oct3/4 or a nucleic acid that encodes the same, (b) Klf4 or a nucleic acid that encodes the same, and (c) Sox2 or a nucleic acid that encodes the same, as well as (d1) L-Myc or a nucleic acid that encodes the same and/or (d2) a functional inhibitor of p53, into contact with a somatic cell. It is preferable that (a) a nucleic acid that encodes Oct3/4, (b) a nucleic acid that encodes Klf4, (c) a nucleic acid that encodes Sox2, (d1) a nucleic acid that encodes L-Myc and (e) a nucleic acid that encodes Lin28 or Lin28b be inserted into an episomal vector having loxP sequences placed in the same orientation on the 5' and 3' sides of a vector constituent essential for the replication of the vector, that (d2) a nucleic acid that encodes an shRNA against p53 be inserted into a vector ensuring transient expression (plasmid vector and the like), and that all these nucleic acids be transferred to a somatic cell.