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(54) Title: METHOD FOR TREATING OSTEOARTHRITIS WITH A COMBINATION OF MESENCHYMAL STEM CELL EX-
OSOMES, SYNOVIAL MESENCHYMAL STEM CELLS, AND SCAFFOLDS

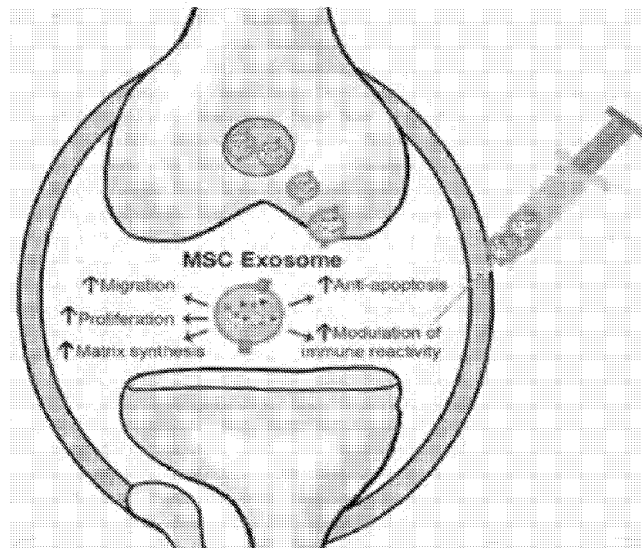


FIG. 4

(57) Abstract: Disclosed herein are methods for treating osteoarthritis may be a one-step arthroscopic procedure and may include detaching synovial mesenchymal stem cells (MSCs) from the synovium using a brush device; covering articular cartilage in an affected joint with a scaffold; and placing concentrated MSC exosomes into the affected joint to stimulate differentiation of synovial MSCs into articular cartilage cells.

[Continued on next page]

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