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(54) Title: MIXING PEN NEEDLE

(57) Abstract: An injection device is provided with dual medicament chambers and a mixing pen needle assembly, whereby predetermined dosages of two medicaments can be provided to a mixing reservoir in the pen needle assembly and delivered simultaneously with the injection device. The pen needle assembly has a patient end needle, a filler needle, and the mixing reservoir intermediate and accessed by the patient end needle and the filler needle.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/035233

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61M 5/19 (2014.01)
CPC - A61M 5/19 (2014.09)
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - A61M 5/178, 5/19, 5/31 (2014.09)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 604/93.01, 181, 187, 191, 240

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, Google Patents, Google Scholar, YouTube, PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim</th>
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