(57) Abstract: Systems, methods and compositions for effectively cleaning wounds are described. According to the present invention, wound care is promoted by the use of a charged solution and particularly in the presence of sonic energy. Inventive methods for producing a solution which promotes removal of microbes, comprising charging a solution that contains at least a solute selected to promote removal of microbes, to produce a charged solution. As a result of charging, at least a portion of the solute is present as clusters in the charged solution. Alternatively, the solute is selected to promote formation of solute clusters, which effectively remove microbes found on or inside the wound. Inventive systems for applying the charged cleaning solution includes: (i) a housing capable of holding a pressurized-charged solution; and (ii) a sonic chamber capable of introducing sonic frequency into the pressurized-charged solution to form a sonically activated charged solution.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8): C11D 3/02; B08B 3/12 (2007.01)
USPC - 134/1; 510/108
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: C11D 3/02; B08B 3/12 (2007.01)
USPC: 134/1; 510/108

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
510/109

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGB,P,EPAB,JPA); Google

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 No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 6,689,086 B1 (Nita et al.) 10 February 2004 (10.02.2004) col 7, In 65-col 8, In 60; col 10, In 4-28; entire document; Fig. 1-5</td>
<td>31-37</td>
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<td>38</td>
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"&" document member of the same patent family

Date of the actual completion of the international search
14 September 2007 (14.09.2007)

Date of mailing of the international search report
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