# EXHIBIT 1011:

U.S. PAT. NO. 5,004,998 TO HORII. ("HORII ('998)")

Pharmatech Solutions, Inc.: EXHIBIT 1011 REQUEST FOR INTER PARTES REVIEW



## United States Patent [19]

Horii [45] Date of Patent: Apr. 2, 1991

[54]	ION-MEAS PROCESS	RIN	G A	PP.	ARA:	rus	F	OR U	JSE I	N
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[75] Inventor: Yoshio Horii, Miyanohigashi, Japan

[73] Assignee: Horiba, Ltd., Kyoto, Japan

[21] Appl. No.: 447,221

[22] Filed: Dec. 7, 1989

[30] Foreign Application Priority Data

## [56] References Cited

#### U.S. PATENT DOCUMENTS

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Primary Examiner—G. L. Kaplan

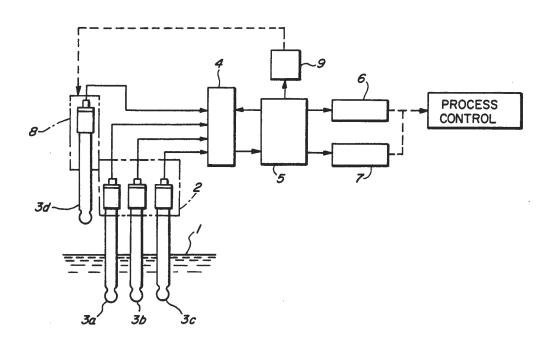
[11] Patent Number:

Attorney, Agent, or Firm-Price, Gess & Ubell

[57] ABSTRACT

An ion-measuring apparatus for use in processes, characterized by comprising 3 or more ion-measuring electrodes for measuring a same one ion contained in a same one sample, means for computing a mean value of measured values obtained by means of said ion-measuring electrodes, an indicating portion for indicating the computed result, means for judging an existence of an abnormality in the ion-measuring electrodes and an alarm for emitting a maintenance alarm when the abnormality occurs in any one of the ion-measuring electrodes so that the ion-measuring electrode, which has been judged to be abnormal, may be excluded to continue a measurement by means of remaining ion-measuring electrodes.

#### 24 Claims, 10 Drawing Sheets





Apr. 2, 1991

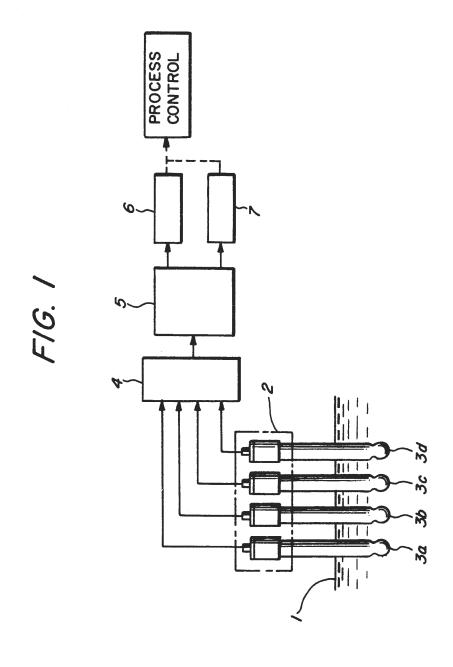
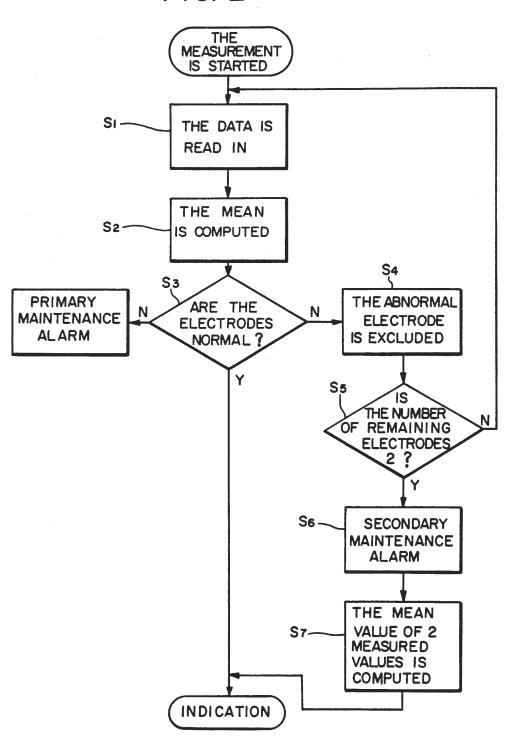
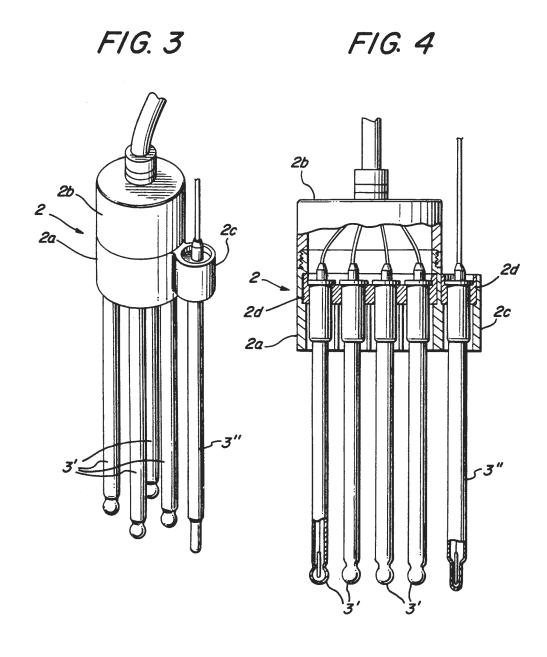




FIG. 2







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