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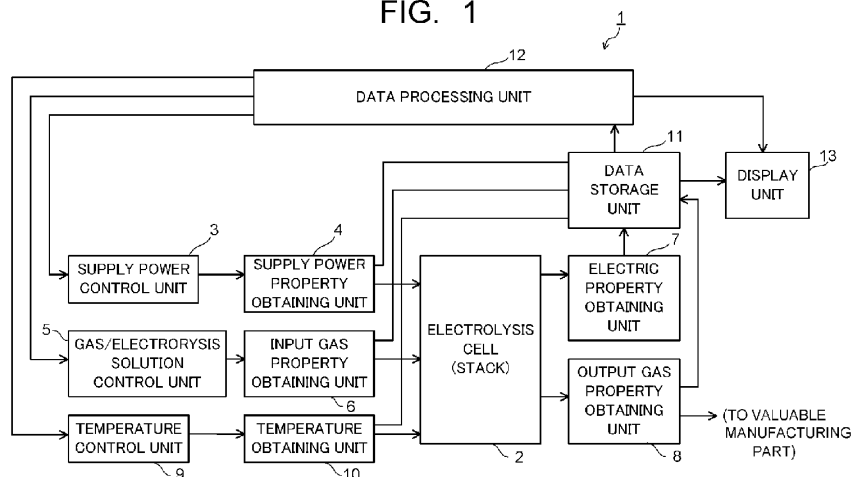
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(54) **ELECTROLYSIS DEVICE AND ELECTROLYSIS METHOD**

(57) An electrolysis device of an arrangement includes: an electrolysis cell including a cathode part in which a reduction electrode is disposed, an anode part in which an oxidation electrode is disposed, and a diaphragm provided between the cathode part and the anode part; a supply power property obtaining unit that obtains a property of power that is to be supplied to the electrolysis cell; an input gas property obtaining unit that obtains a property of a gas that is to be input to the elec-

trolysis cell; an electric property obtaining unit that obtains an electric property of the electrolysis cell; an output gas property obtaining unit that obtains a property of an output gas of the electrolysis cell; a temperature obtaining unit that obtains a temperature of the electrolysis cell; a data storage unit that stores data from the obtaining units; and a data processing unit to which the data is sent from the data storage unit and that processes the data to determine a state of the electrolysis cell.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number

EP 23 15 9594

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			TECHNICAL FIELDS SEARCHED (IPC)
			C25B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 July 2024	Examiner Harder, Sebastian
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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