

FIG. 1: Table 1. Example Anaerobic Digestate for Ammonia Recovery

Anaerobic Digestate Producing Plant	Digester Feed	pH	NH ₄ -N	K ⁺	Na ⁺	Ca ²⁺	Mg ²⁺	PO ₄ -P	Cl ⁻	Alk.*
<i>Municipal Anaerobic Digestate Producing Plants</i>										
Madison, WI	GBT** Filtrate	7.14	739	187	275	99	43	35	1108	2340
Dupage, IL	Belt Press Filtrate	8.35	1980	230	167	29	2	250	360	4900
<i>Methane-Producing Dairy Manure Anaerobic Digester</i>										
Vienna, WI	Centrate	7.85	1810	2716	921	62	338	21	965	10250
<i>Methane-Producing Whey Anaerobic Digester</i>										
(Withheld)	Filtrate	6.81	145	482	169	67	38	55	637	650
<i>Anaerobic Digestate from Swine Manure Lagoon</i>										
Arlington, WI	Supernatant	7.95	512	425	81	88	25	14	241	2411

* Alkalinity calculated as mg CaCO₃/L based on charge deficit between cations and anions.

** Gravity Belt Thickener

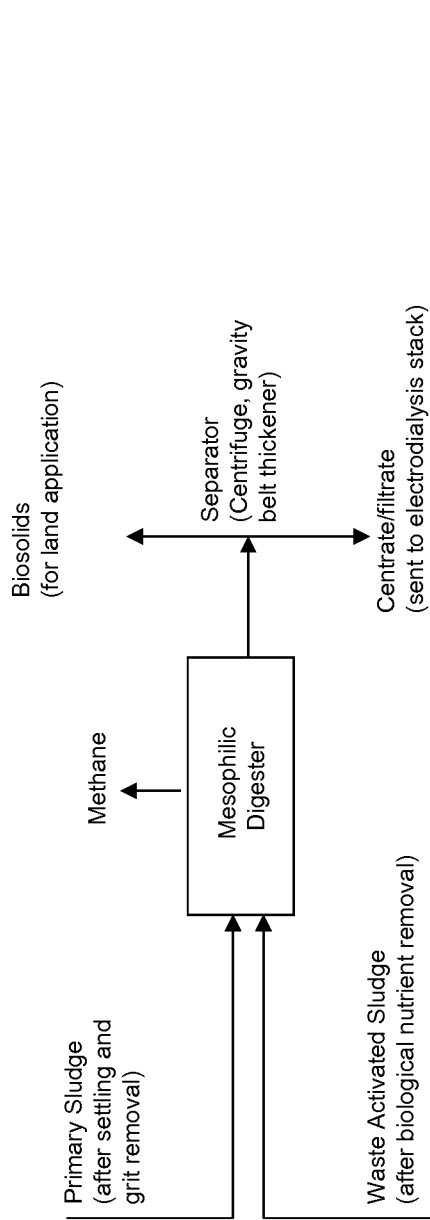


FIG. 2A

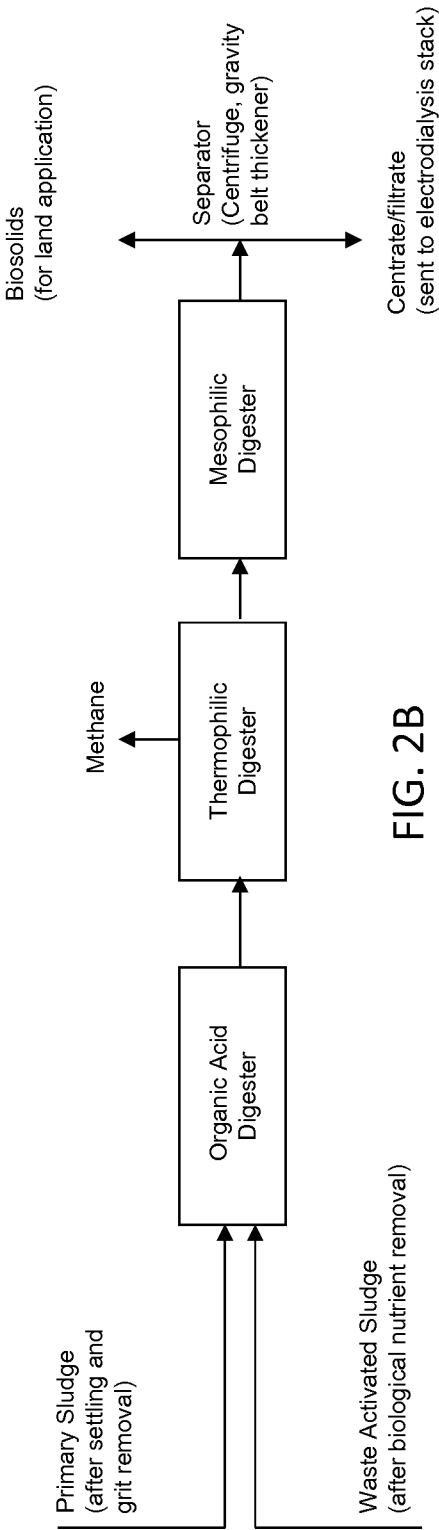


FIG. 2B

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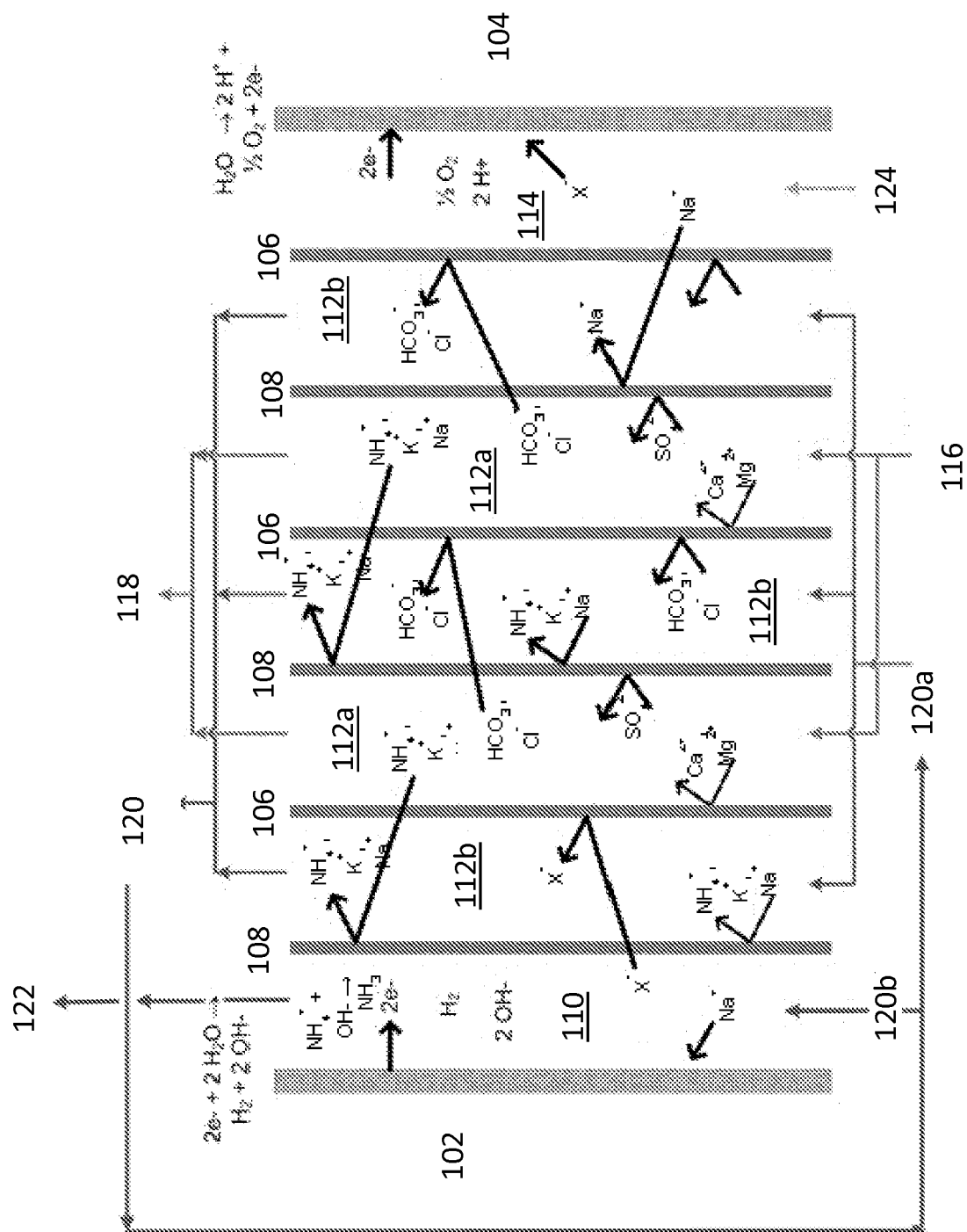


FIG. 3

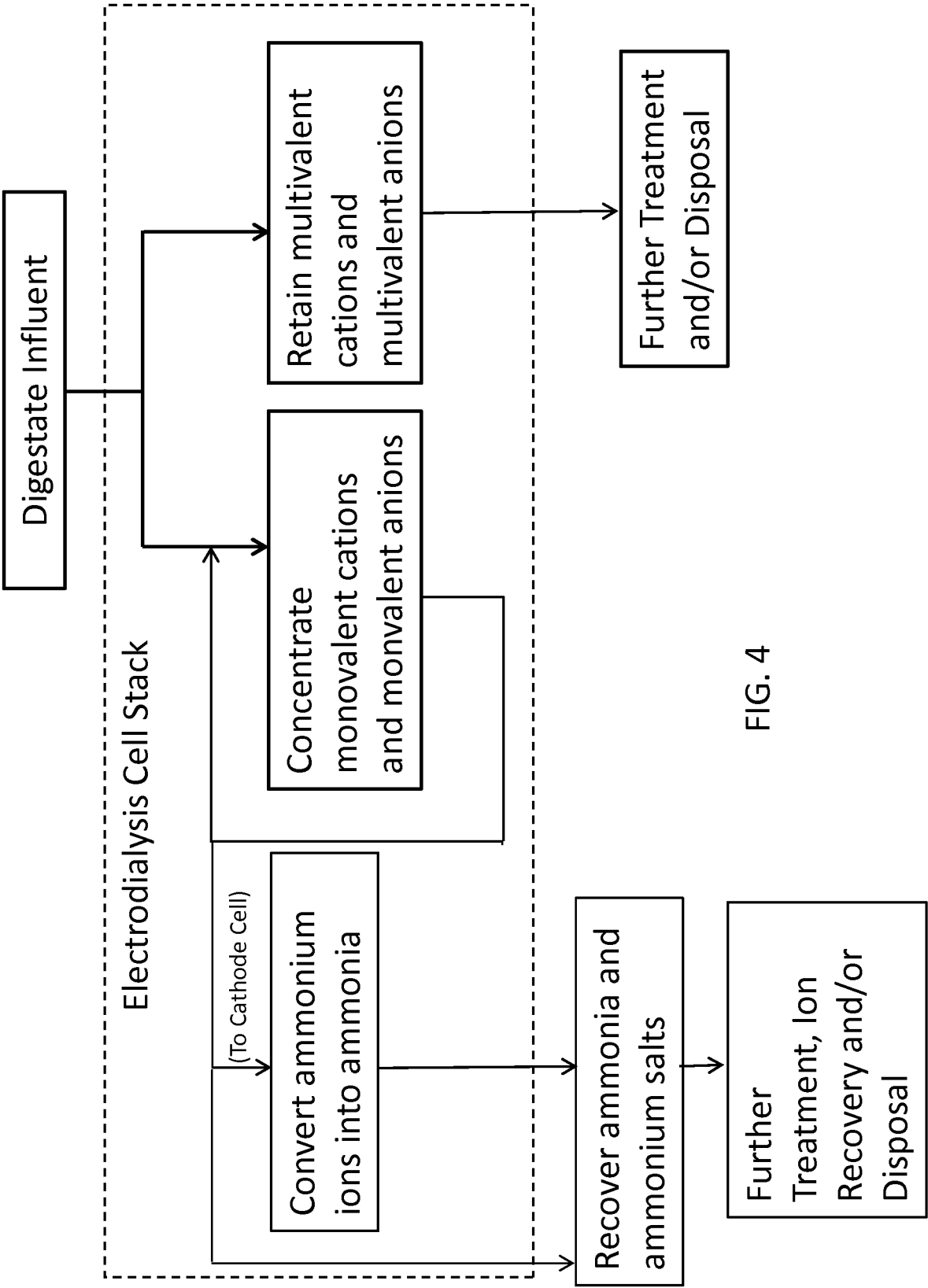


FIG. 4

Ammonium Bicarbonate
Recirculating Concentrate Stream

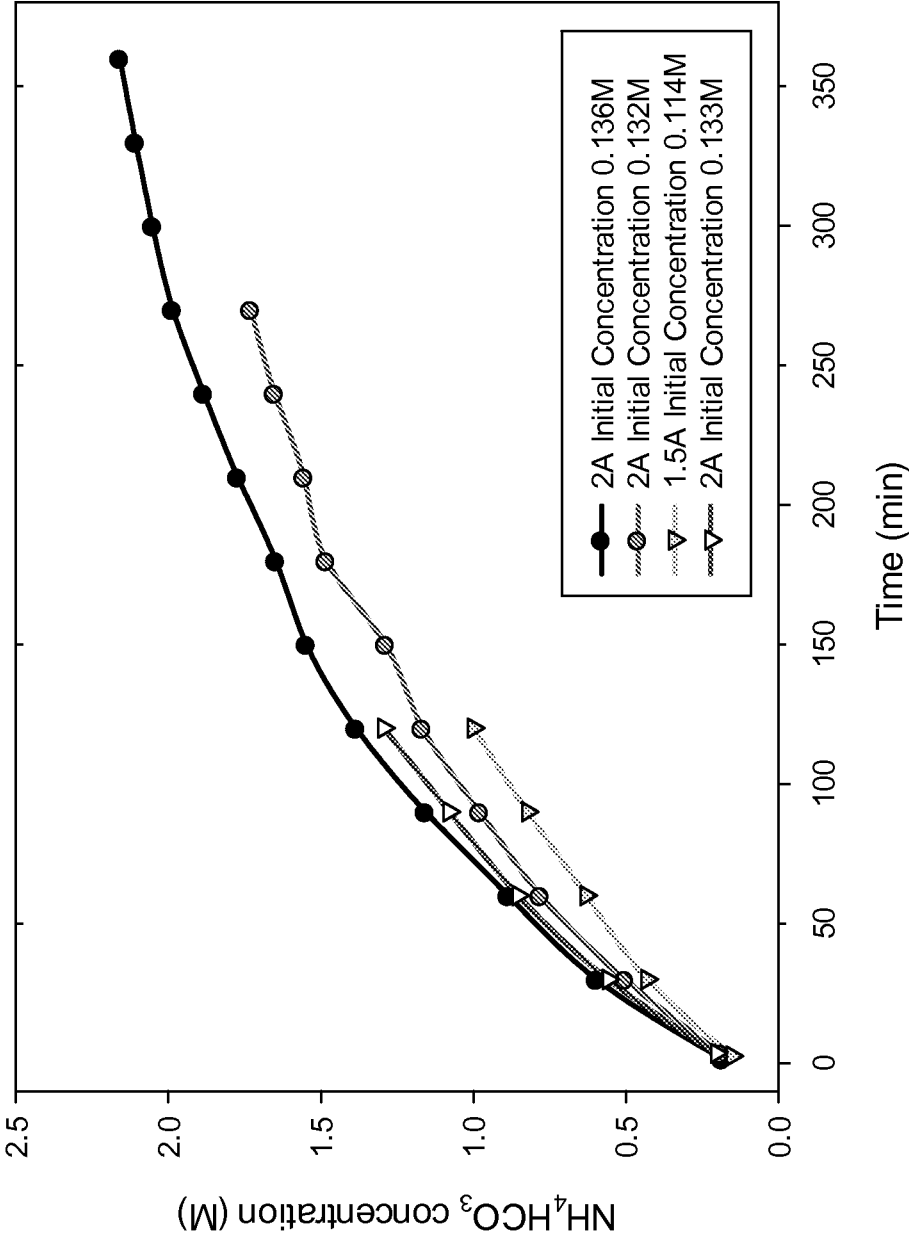


FIG. 5