IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION

SONRAI MEMORY LIMITED, *Plaintiff,*	§	
-v-	§	**6:22-CV-00787-ADA**
APPLE, INC., *Defendants.*	§	

CLAIM CONSTRUCTION ORDER

The Court held a *Markman* hearing on April 6, 2023. During that hearing, the Court provided its final constructions. The Court now enters those claim constructions.

SIGNED this 6th day of April, 2023.

ALAN D ALBRIGHT
UNITED STATES DISTRICT JUDGE

MICRON 1020

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
#1: "A charge pump circuit for generating a charge pump voltage having minimal voltage ripples" U.S. Patent No. 6,724,241 Patent, Claim 1 Proposed by Defendant	The preamble is not limiting except for "charge pump circuit"	The preamble is limiting and should be given its plain and ordinary meaning.	The preamble is not limiting except for "charge pump circuit"
#2: "coupling… to / coupled … to" U.S. Patent No. 6,724,241 Patent, Claims 1, 6, 9, 10, 11 Proposed by Defendant	No construction necessary. Alternatively, for claims 6, 9, 10, and 11 "connected without intervening components that substantially change the voltage"	"connected without intervening resistors or other components that substantially change the voltage"	Claim 1: Plain-and-ordinary meaning. Claims 6, 9, 10, 11 "connected without intervening components that substantially change the voltage"

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
#3: "load selector means includes a target output pump selector for shutting down the variable charge pump circuit when the target output pump voltage (Vcfra) is greater than or equal to a reference voltage (Vref)" U.S. Patent No. 6,724,241 Patent, Claim 2 Proposed by Defendant	Means-plus-function limitation. **Function**: "shutting down the variable charge pump circuit when the target output pump voltage (Vcfra) is greater than or equal to a reference voltage (Vref)" **Corresponding structure**: comparator 702 as shown in Figure 7 and associated descriptions in the specification, and equivalents thereof.	Subject to § 112 ¶ 6. **Function**: "shutting down the variable charge pump circuit when the target output pump voltage (Vcfra) is greater than or equal to a reference voltage (Vref)." **Structure**: there is no corresponding structure in the specification that comprises a load selector means that includes a target output pump selector that performs the claimed function. *Indefinite.*	Subject to § 112 ¶ 6. **Function**: "shutting down the variable charge pump circuit when the target output pump voltage (Vcfra) is greater than or equal to a reference voltage (Vref)" **Structure**: comparator 702 as shown in Figure 7 and associated descriptions in the specification, and equivalents thereof.

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
#4: "load selector means further includes a maximum ripple on the target output selector means for adding a load, whenever a maximum ripple on the target output voltage (Vcfrb) greater than the reference voltage (Vref) then the maximum ripple on the target output selector means adds additional loads until the Vcfrb voltage is less than or equal to the reference voltage (Vref)" U.S. Patent No. 6,724,241 Patent, Claim 3 Proposed by Defendant	Means-plus-function limitation. **Function**: "adding a load, whenever a maximum ripple on the target output voltage (Vcfrb) greater than the reference voltage (Vref) then the maximum ripple on the target output selector means adds additional loads until the Vcfrb voltage is less than or equal to the reference voltage (Vref)" **Corresponding structure**: comparator 714 as shown in Figure 7 and associated descriptions in the specification, and equivalents thereof.	Subject to § 112 ¶ 6. **Function**: "adding a load, whenever a maximum ripple on the target output voltage (Vcfrb) greater than the reference voltage (Vref) then the maximum ripple on the target output selector means adds additional loads until the Vcfrb voltage is less than or equal to the reference voltage (Vref)" **Structure**: there is no corresponding structure in the specification that comprises a load selector means that also includes a maximum ripple on the target output selector that performs the claimed function. *Indefinite.*	Subject to § 112 ¶ 6. **Function**: "adding a load, whenever a maximum ripple on the target output voltage (Vcfrb) greater than the reference voltage (Vref) then the maximum ripple on the target output selector means adds additional loads until the Vcfrb voltage is less than or equal to the reference voltage (Vref)" **Structure**: comparator 714 as shown in Figure 7 and associated descriptions in the specification, and equivalents thereof.

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
#5: "coupled to each load" U.S. Patent No. 6,724,241 Patent, Claim 6 Proposed by Defendant	"coupled to each corresponding load"	"connected without intervening resistors or other components that substantially change the voltage to each load"	Plain-and-ordinary meaning[1] [1] – Note not for the jury: "each load" means "each corresponding load"
#6: "an elevator circuit" U.S. Patent No. 6,724,241 Patent, Claim 9 Proposed by Defendant	No construction necessary. Alternatively, "a level shifter"	*Indefinite.*	Not indefinite. "a circuit that increases an electrical characteristic, *e.g.*, voltage"
#7: "turning on a load" U.S. Patent No. 6,724,241 Patent, Claim 24 Proposed by Defendant	No construction necessary. Alternatively, "connecting a load"	*Indefinite.*	Not indefinite.