

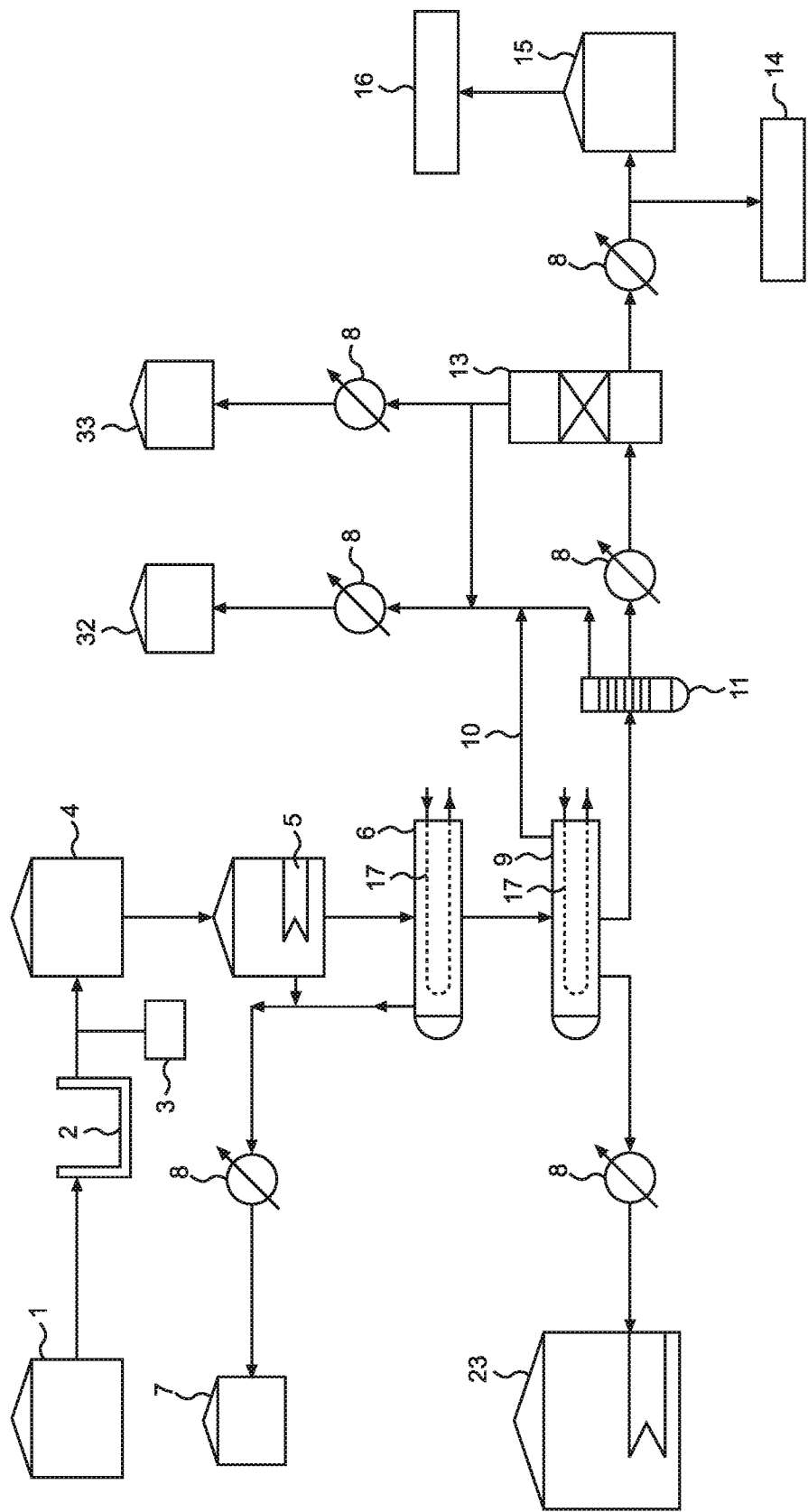


FIG. 1

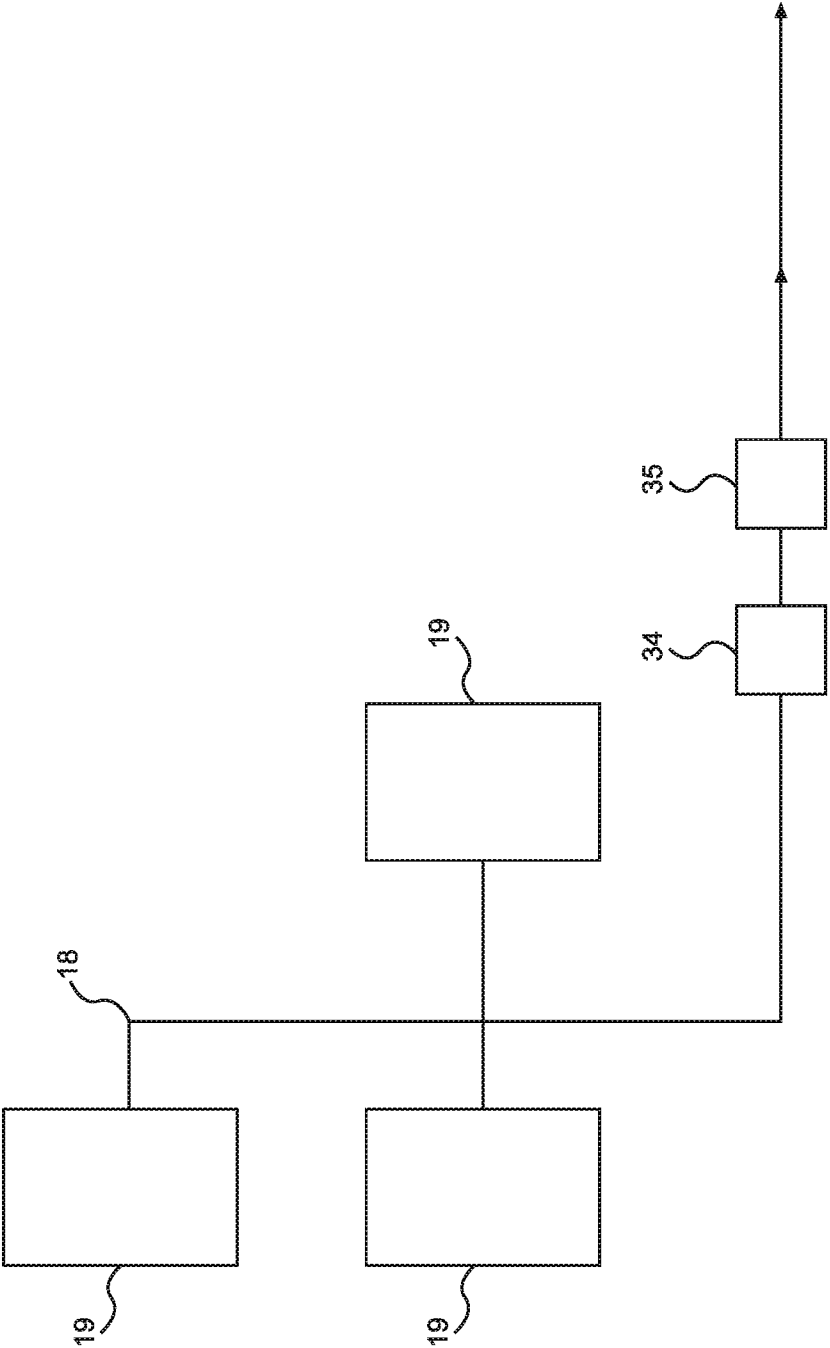


FIG. 2

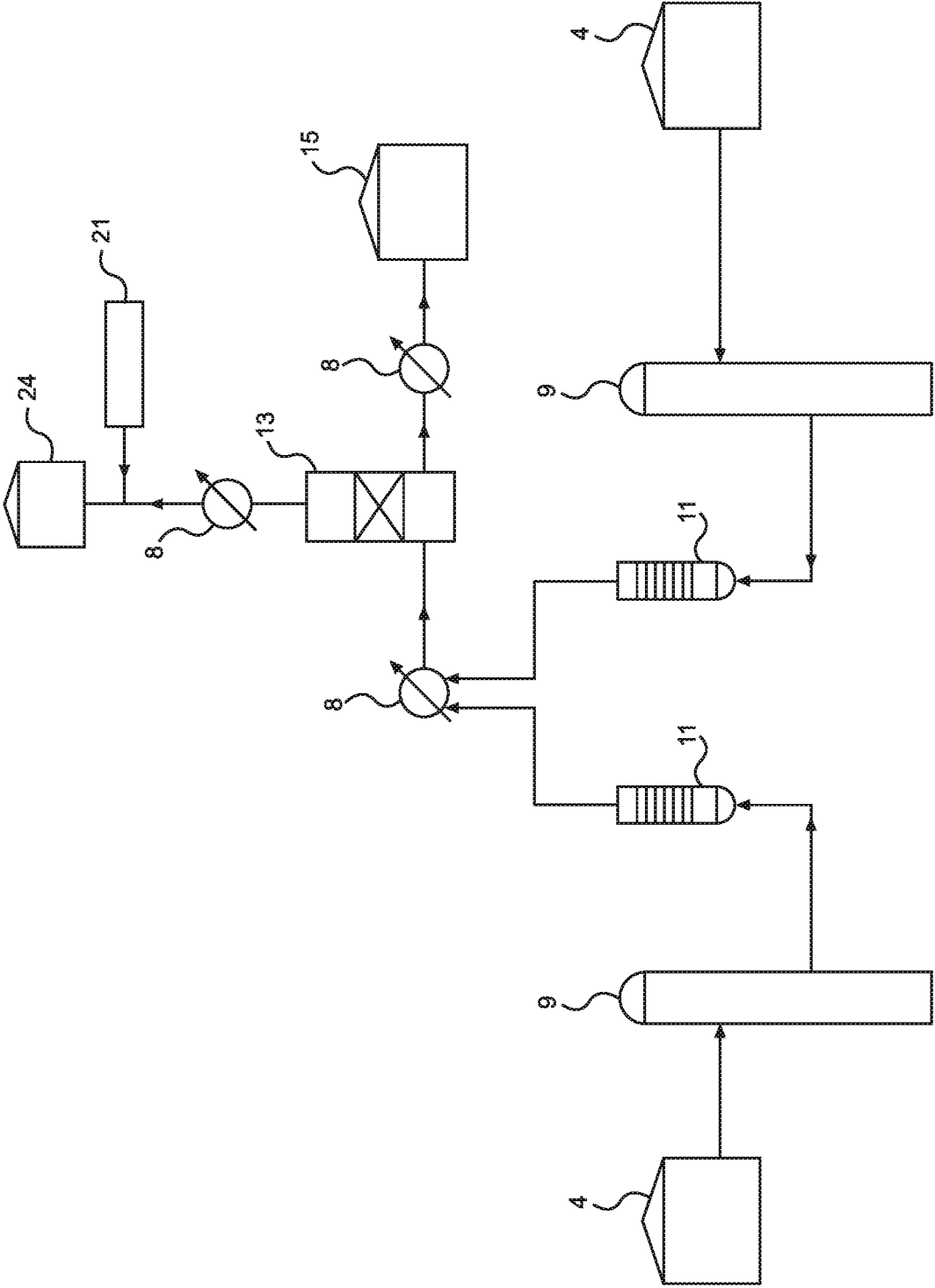


FIG. 3

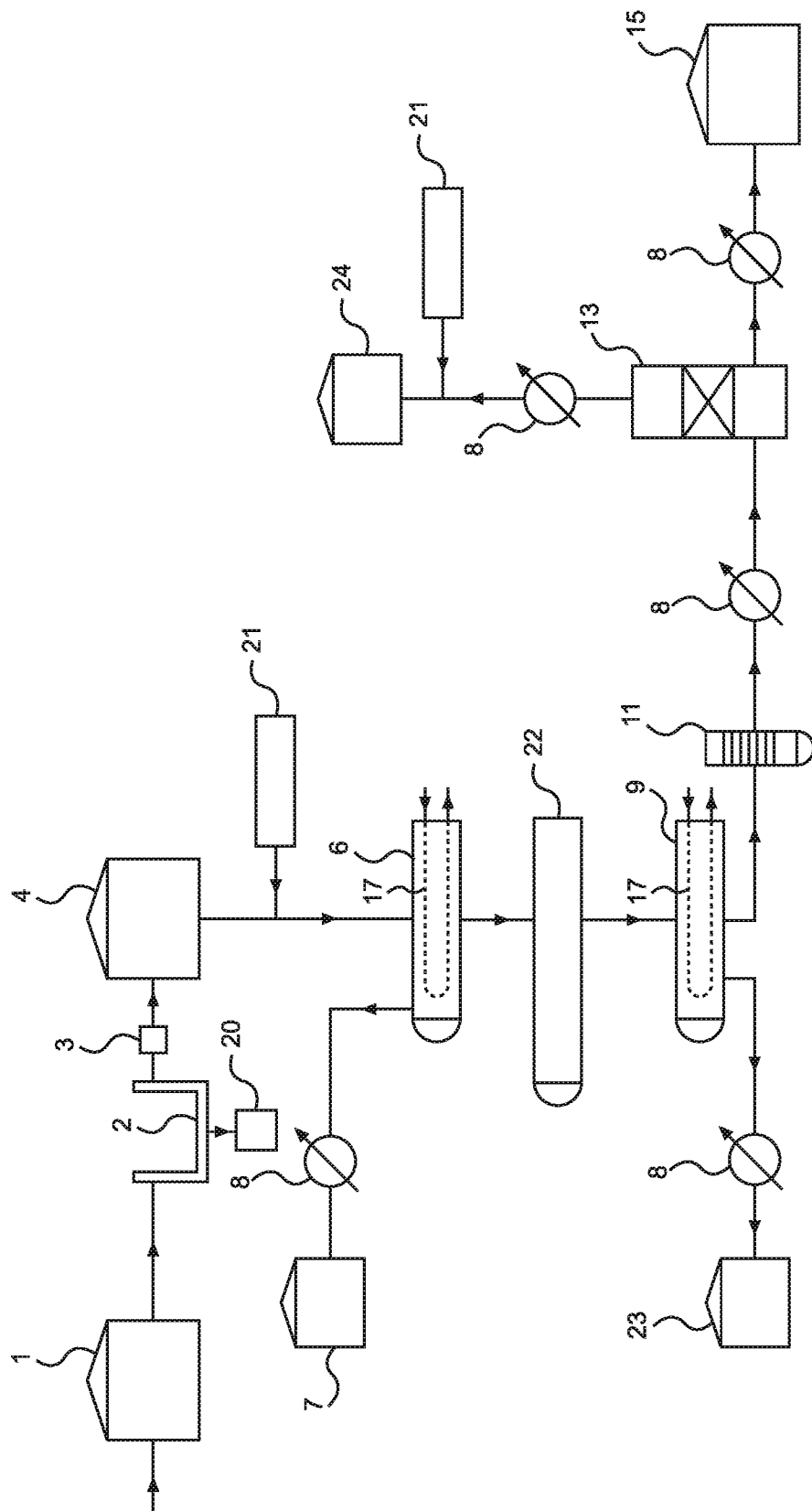


FIG. 4

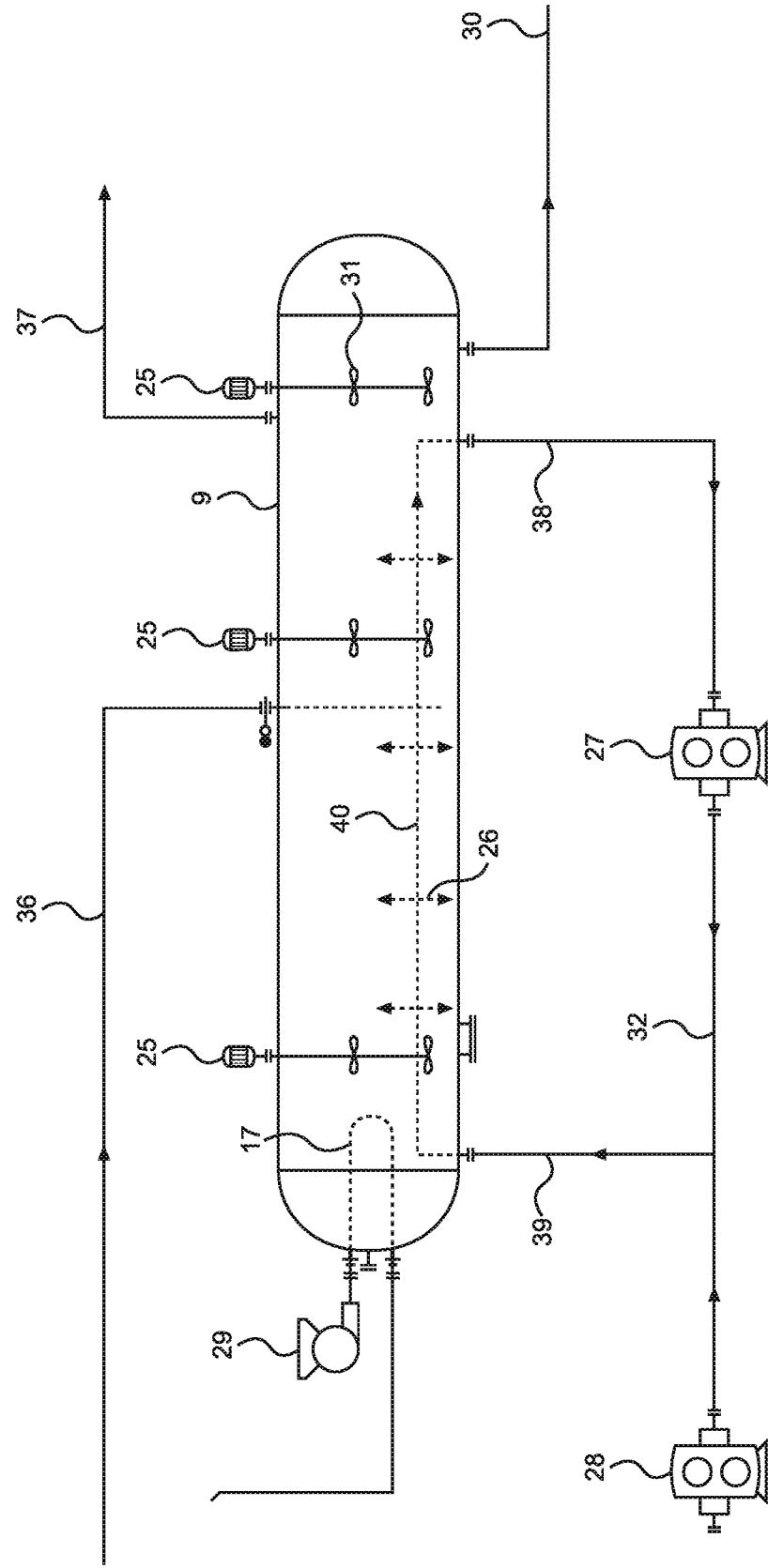


FIG. 5

Straight Chain Hydrocarbons

Name	Carbon Atoms	n-alkanes	n-alkanes	Range
	Present	Boiling Point	Flash Point	
		°C	°C	
Water	H ₂ O	100	-	-
Methane	C ₁	-164	-	NGK
Ethane	C ₂	-89	-139.16	NGK
Propane	C ₃	-42	-106.49	NGK
Butane	C ₄	-0.5	-74	NGK
Pentane	C ₅	36	-47.21	NGK
Hexane	C ₆	69	-17.4	NGK
Heptane	C ₇	98	-7.12	NGK
Octane	C ₈	125	16.15	Diesel
Nonane	C ₉	151	29.29	Diesel
Decane	C ₁₀	174	50.45	Diesel
Undecane	C ₁₁	196	69.45	Diesel
Dodecane	C ₁₂	216	85.43	Diesel
Tridecane	C ₁₃	234	100.32	Diesel
Tetradecane	C ₁₄	254	111.3	Diesel
Pentadecane	C ₁₅	271	122.55	Diesel
Hexadecane	C ₁₆	287	131.67	Diesel
Heptadecane	C ₁₇	302	146.83	Diesel
Octadecane	C ₁₈	317	156.28	Diesel
Nonadecane	C ₁₉	330	167.25	Diesel
Eicosane	C ₂₀	343	175.96	Diesel
Heneicosane	C ₂₁	357	-	Diesel
Docosane	C ₂₂	367	-	Lube/Fuel Oil
Tricosane	C ₂₃	380	-	Lube/Fuel Oil
Tetracosane	C ₂₄	391	-	Lube/Fuel Oil
Pentacosane	C ₂₅	402	-	Lube/Fuel Oil
Hexacosane	C ₂₆	412	-	Lube/Fuel Oil
Heptacosane	C ₂₇	432	-	Lube/Fuel Oil
Octacosane	C ₂₈	436	226.81	Lube/Fuel Oil
Nonacosane	C ₂₉	441	-	Lube/Fuel Oil
Triacontane	C ₃₀	451	239.93	Lube/Fuel Oil
Hentriacontane	C ₃₁	458	-	Lube/Fuel Oil
Dotriacontane	C ₃₂	467	-	Lube/Fuel Oil
Tritriacontane	C ₃₃	474	-	Lube/Fuel Oil
Tetratriacontane	C ₃₄	483	-	Lube/Fuel Oil
Pentatriacontane	C ₃₅	490	-	Lube/Fuel Oil

FIG. 6A

Hexatri	C36	497	-	Lube/Fuel Oil
Heptatriacontane	C37	505	-	Lube/Fuel Oil
Octatriacontane	C38	512	-	Lube/Fuel Oil
Nonatriacontane	C39	518	-	Lube/Fuel Oil
Tetracontane	C40	525	-	Lube/Fuel Oil
Hentetracontane	C41	531	-	Lube/Fuel Oil
Dotetracontane	C42	536	-	Lube/Fuel Oil
Triatetracontane	C43	542	-	Lube/Fuel Oil
Tetratetracontane	C44	548	-	Lube/Fuel Oil
Pentatetracontane	C45	553	-	Lube/Fuel Oil
Hexatetracontane	C46	558	-	Lube/Fuel Oil
Heptatetracontane	C47	564	-	Lube/Fuel Oil
Octatetracontane	C48	569	-	Lube/Fuel Oil
Nonatetracontane	C49	574	-	Lube/Fuel Oil
Pentacontane	C50	578	-	Lube/Fuel Oil
Henpentacontane	C51	583	-	Lube/Fuel Oil
Dopentacontane	C52	588	-	Lube/Fuel Oil
Tripentacontane	C53	592	-	Lube/Fuel Oil
Tetrapentacontane	C54	596	-	Lube/Fuel Oil
Pentapentacontane	C55	-	-	Lube/Fuel Oil
Hexapentacontane	C56	-	-	Lube/Fuel Oil
Heptapentacontane	C57	-	-	Lube/Fuel Oil
Octapentacontane	C58	-	-	Lube/Fuel Oil
Nonapentacontane	C59	-	-	Lube/Fuel Oil
Hexacontane	C60	-	-	Lube/Fuel Oil

FIG. 6B

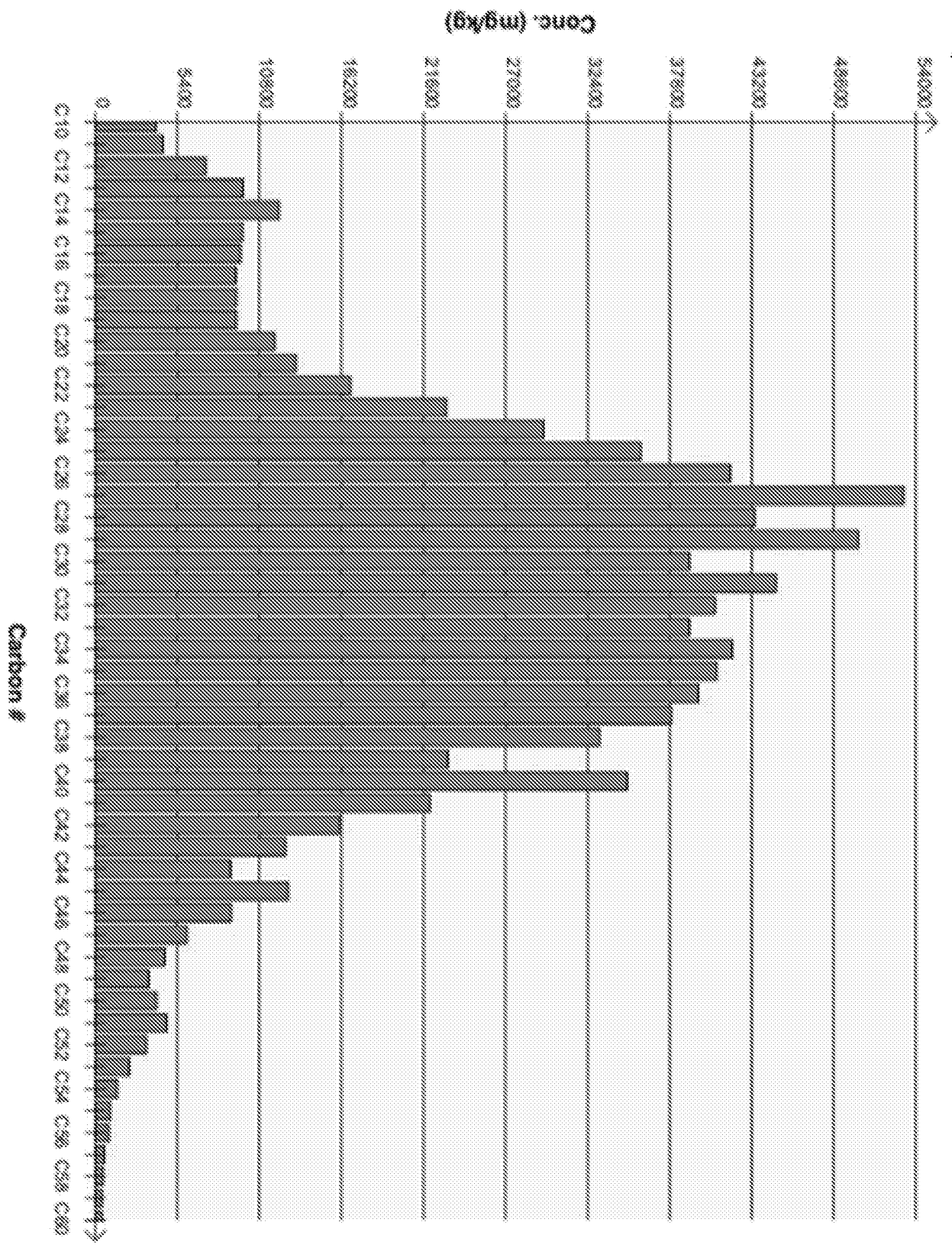


FIG. 7