

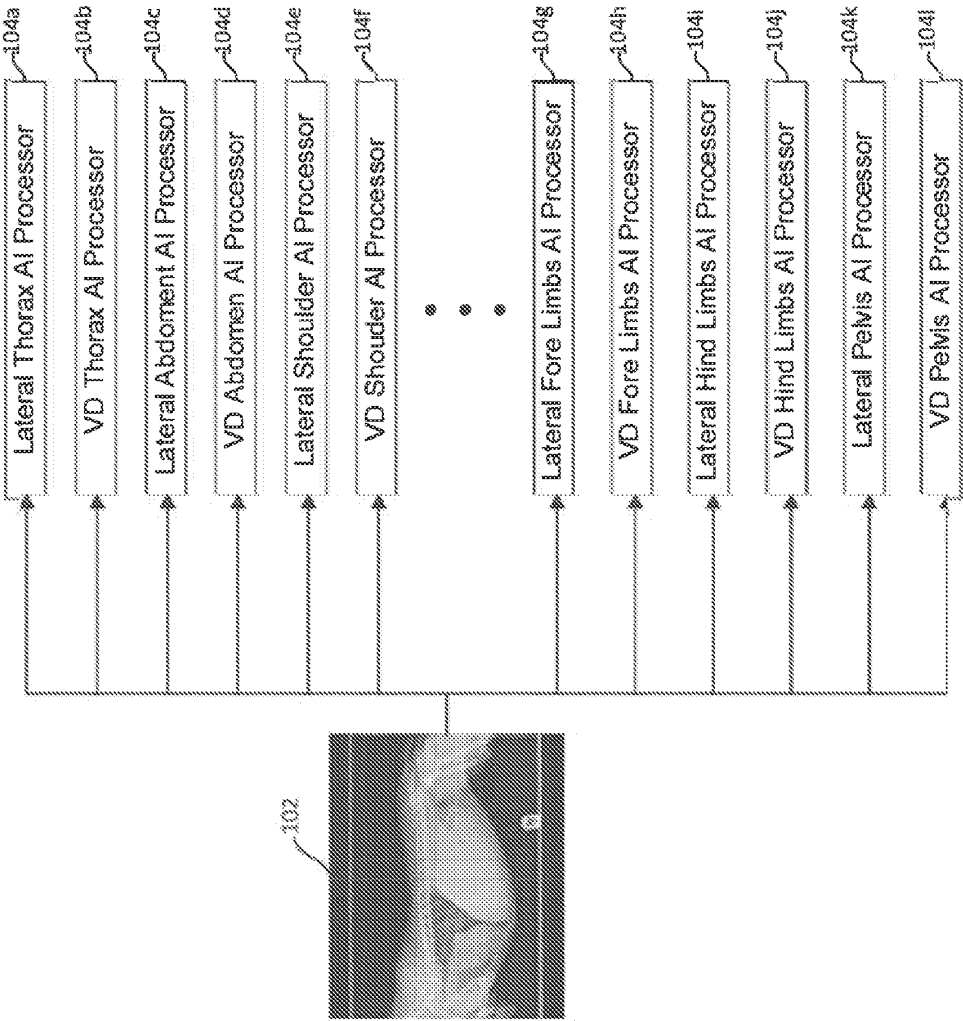


FIG. 1

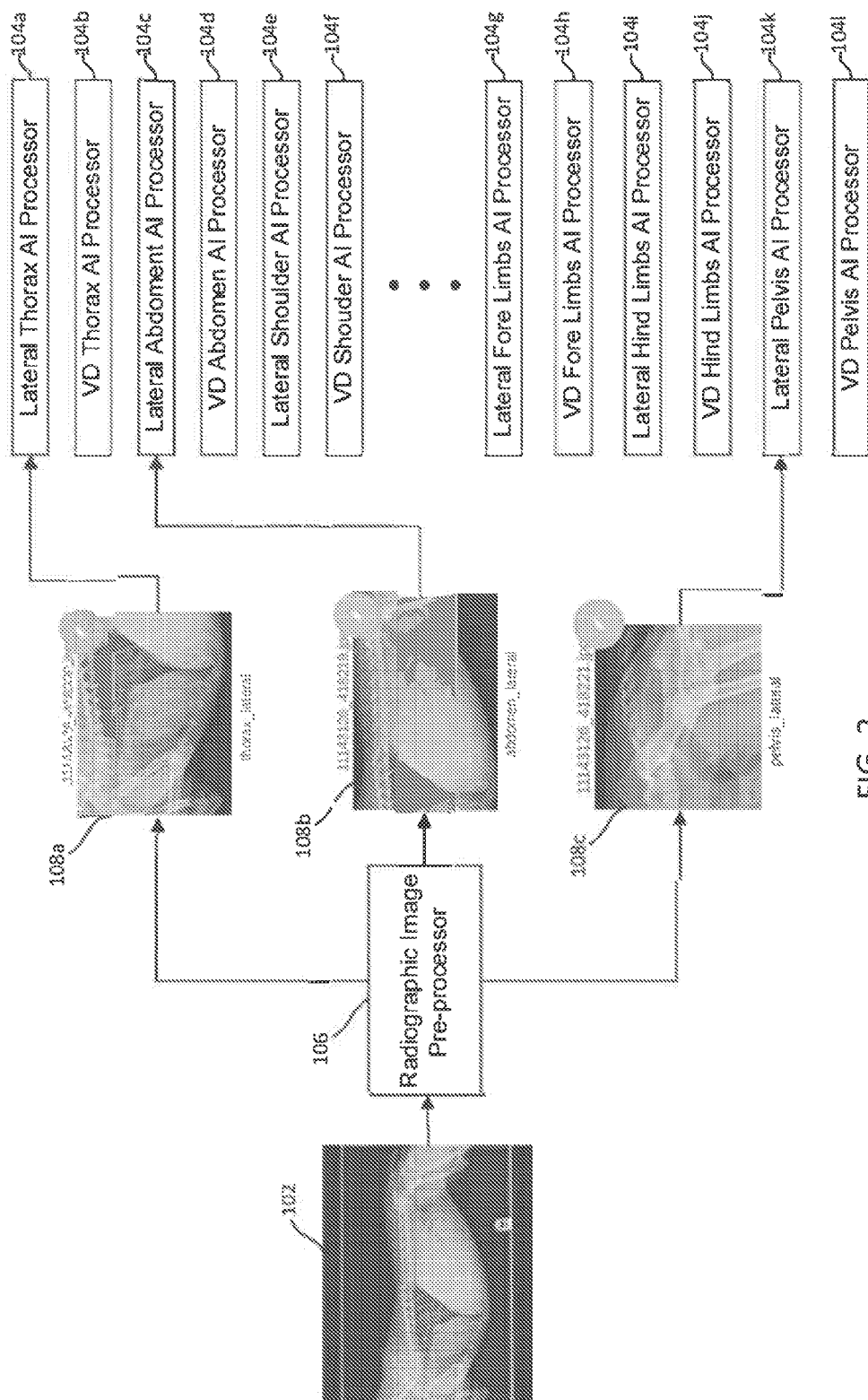
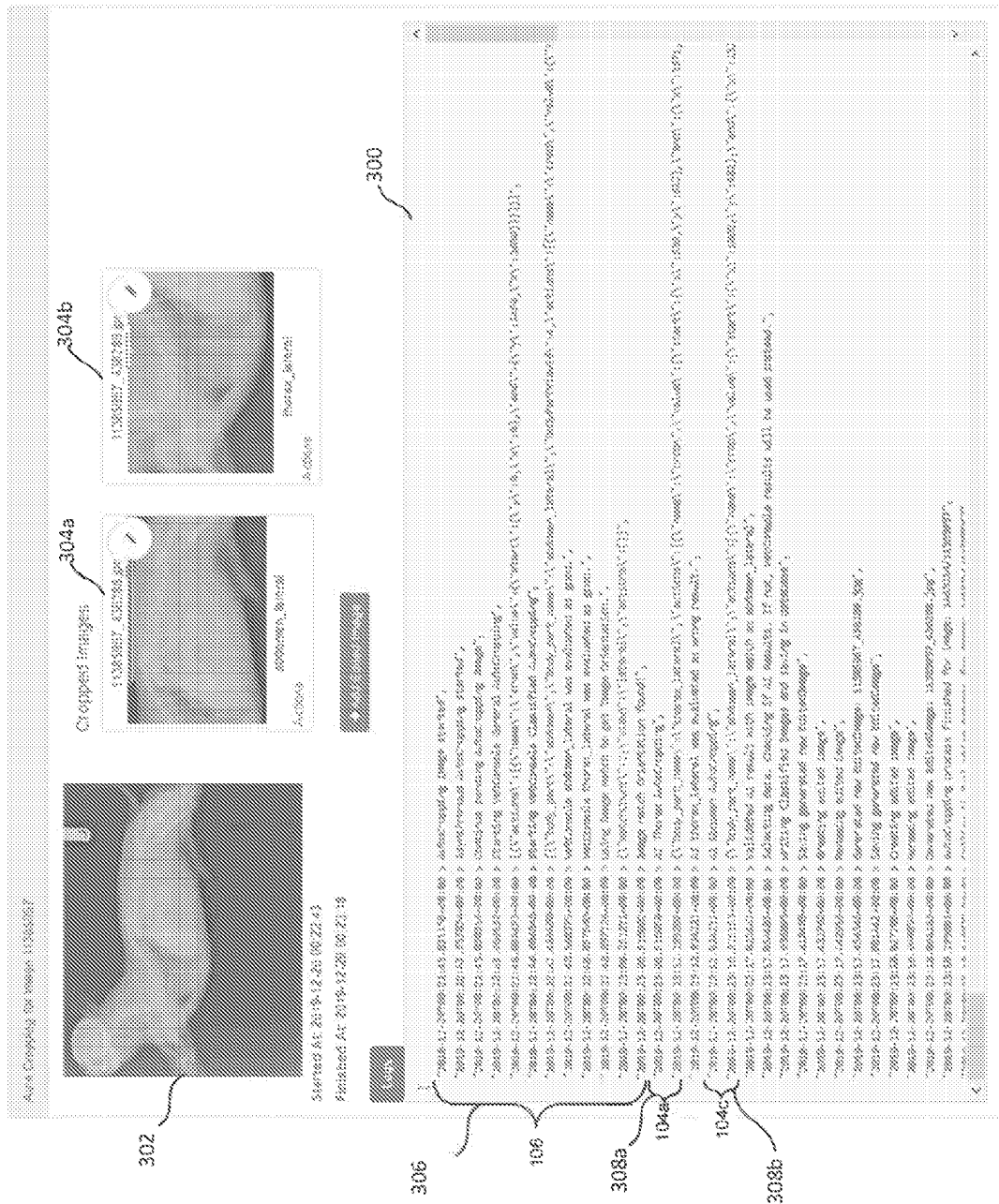


FIG. 2



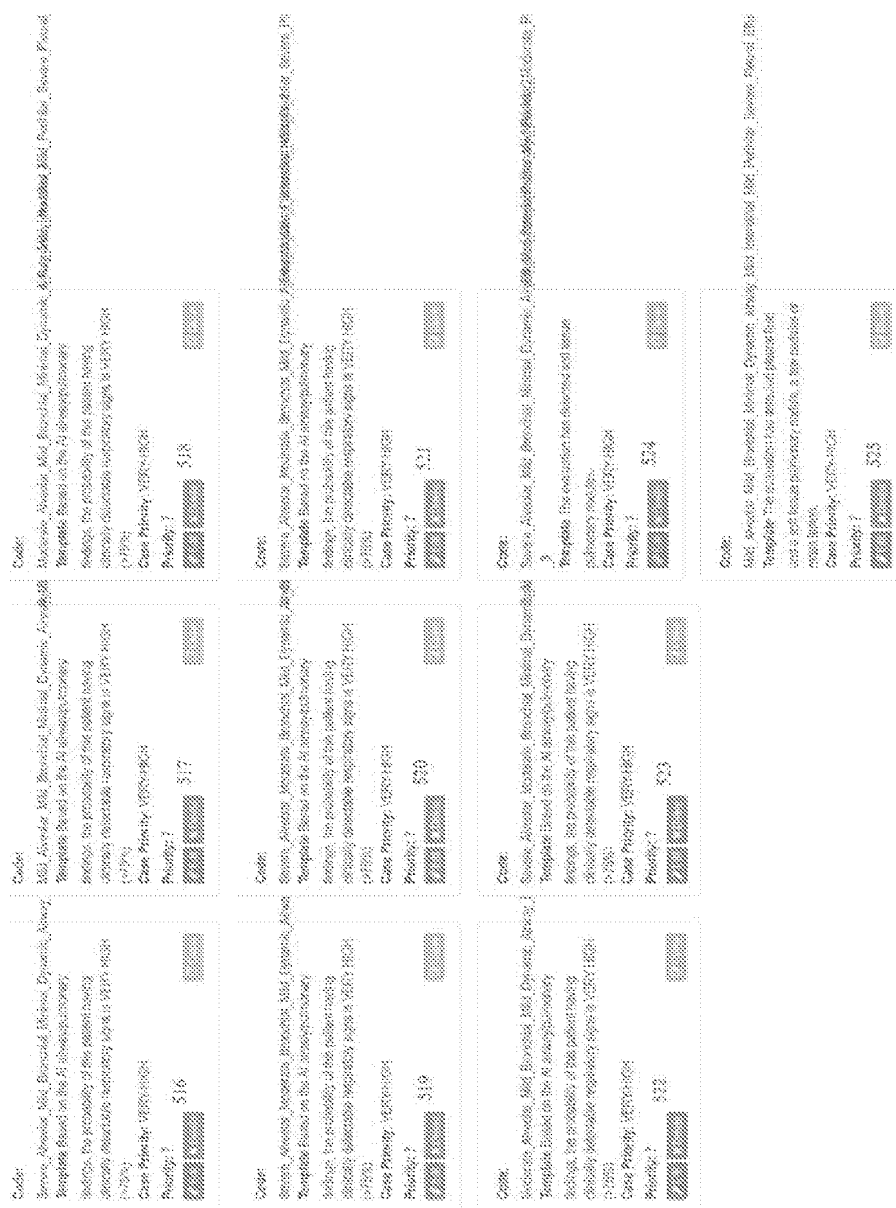
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Finding Combined Rules

[illegible]



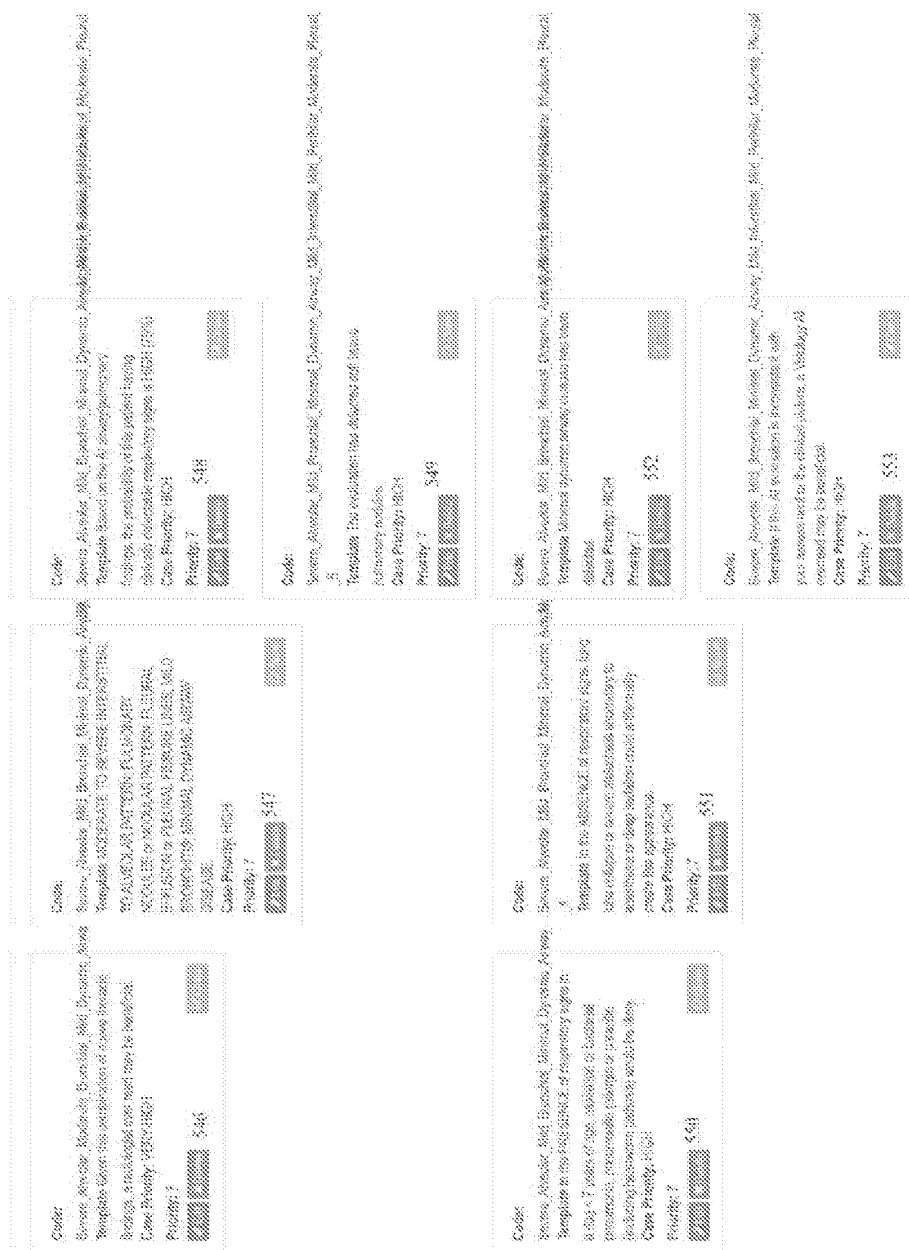
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[illegible]

FIG. 5D

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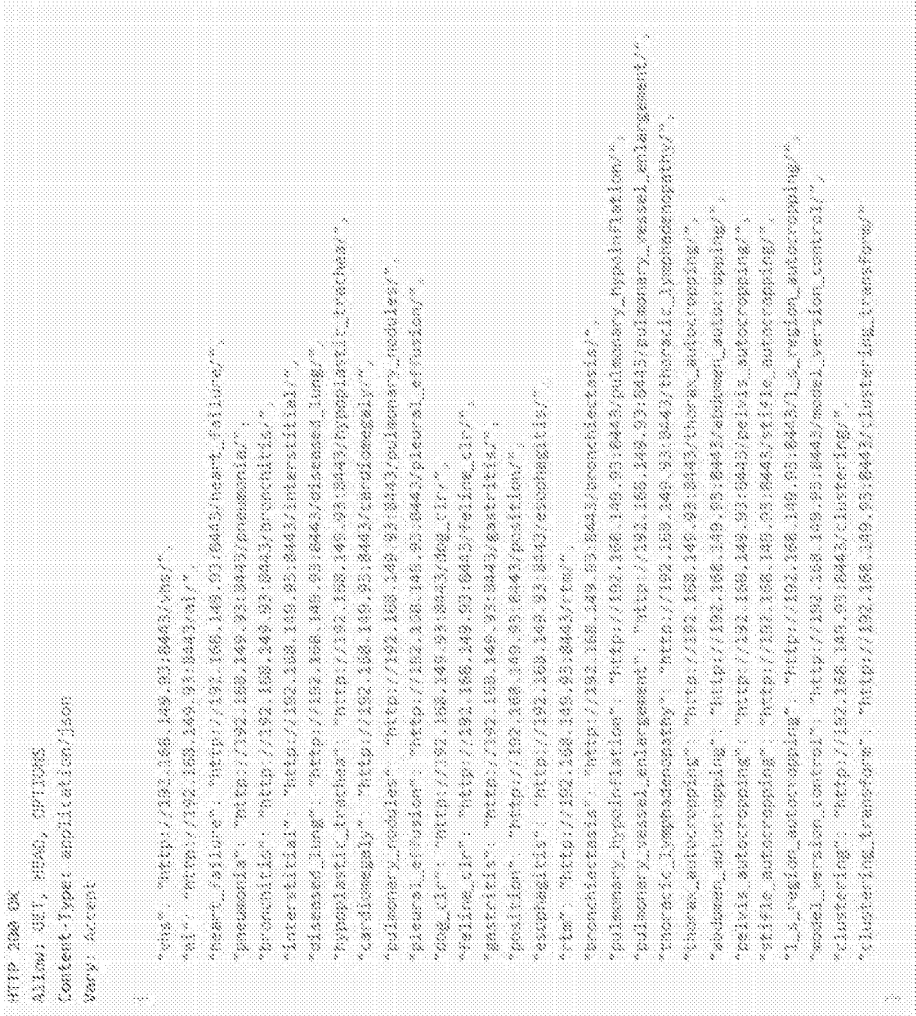


FIG. 6

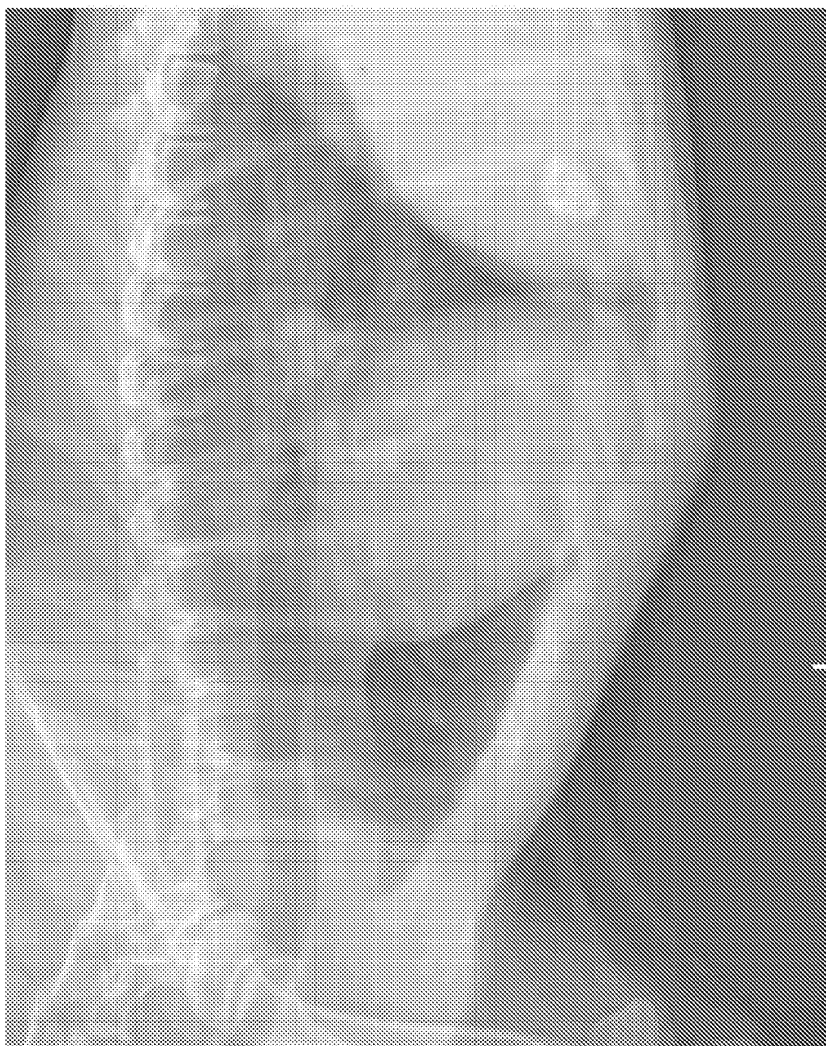


FIG. 7

[illegible]

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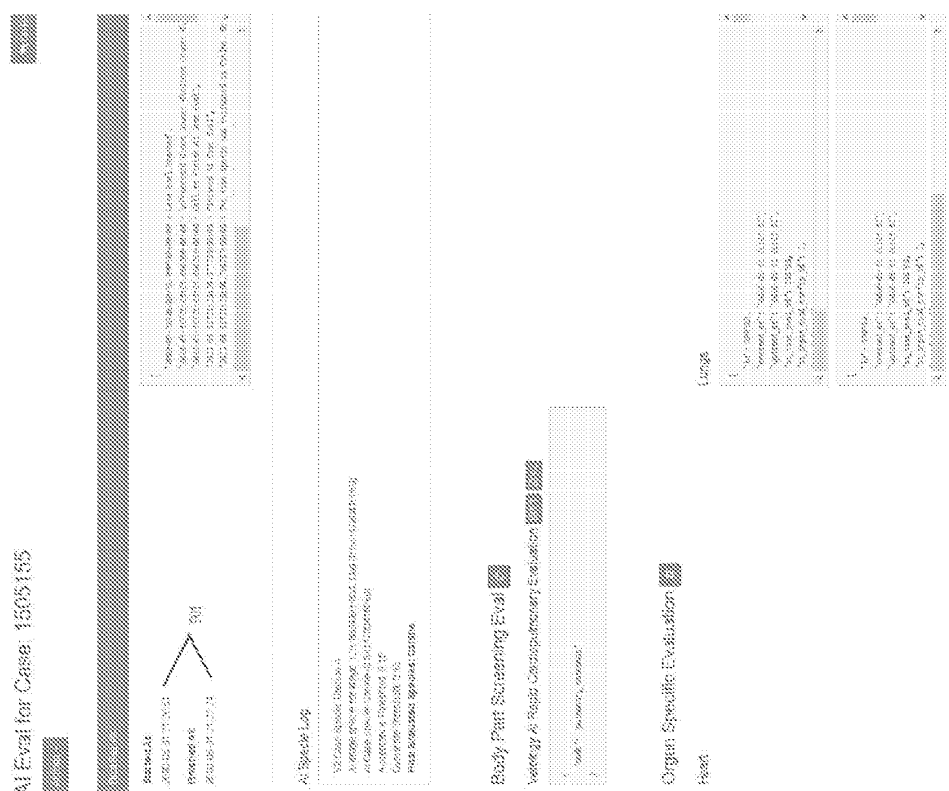


FIG. 9A



FIG. 9B

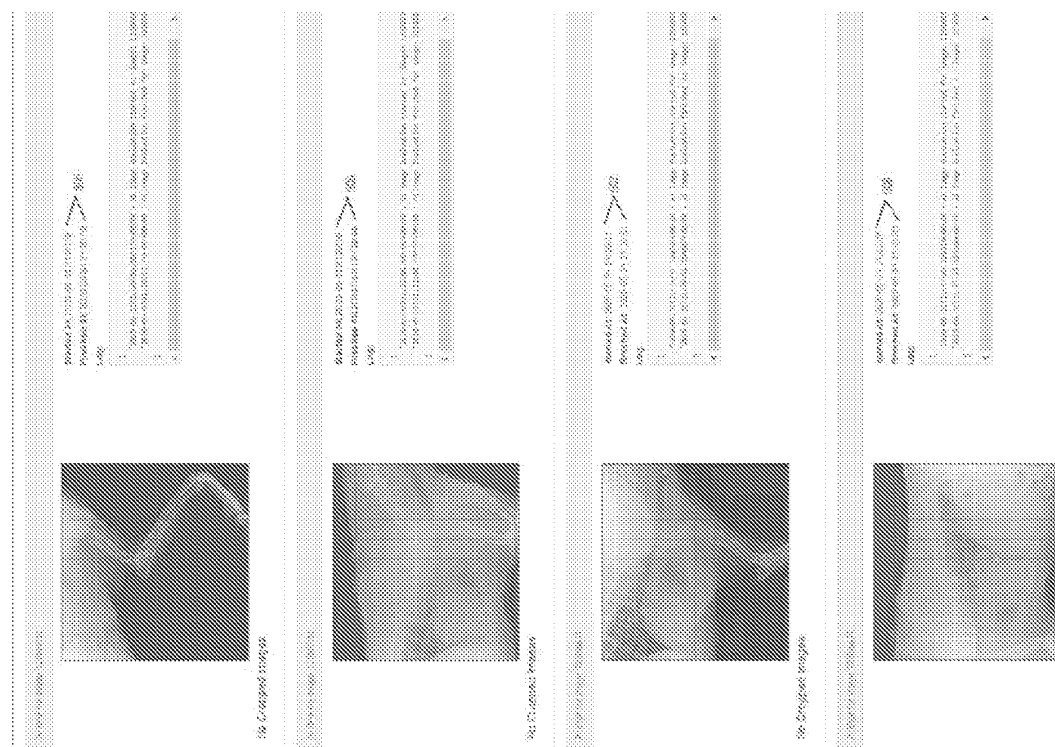


FIG. 9C

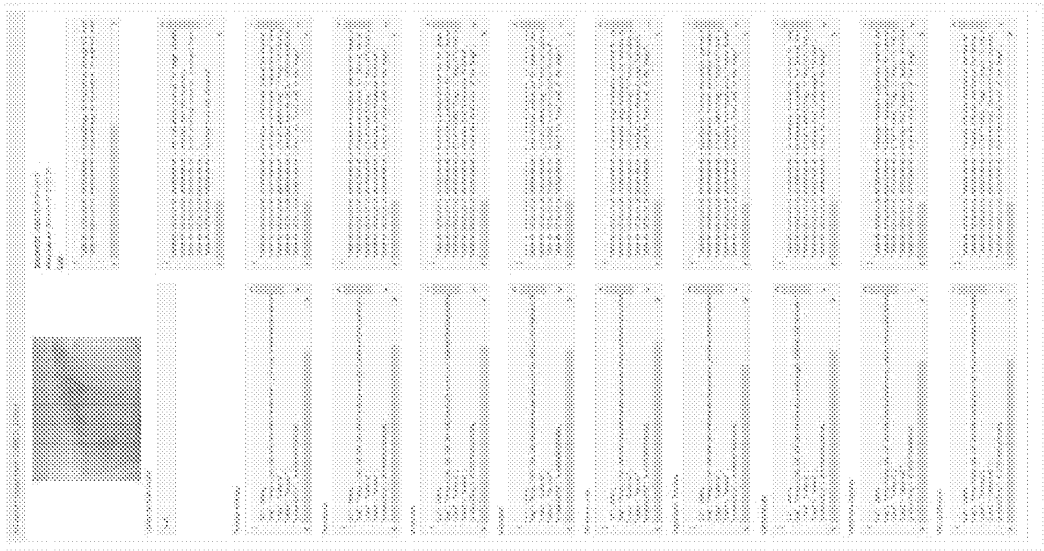


FIG. 9E

Create a new Cluster

101 Create

102 Select Cases for the Cluster model

Start Date 10/1/94 1775

Start Case ID 1775

End Date 10/1/95

End Case ID 185

103 Specify

104 Specify number of Cases

3

105 Distributions

Specify Distributions

106 Specify Distributions

Normal

107 Specify

Specify Types

Specify Dates

Cancel

108 Specify Types

FIG. 11

1201	periph infiltr e	pneumo nia	bronchi tis	interstiti al	diseased lungs	hypo_pia dic_trach ea	cardiome galy	pulmona ry_nodal es	pleural_e ffusion	label	1203	embedd ng_x	embedd ng_y	embedd ng_x	centroid embedd ng_x	centroid embedd ng_y	1204
1494474	0.333514	0.39642	0.237893	0.291116	0.228178	0.52276	0.070676	0.308683	0.196377	43	-9.0274	-32.0377	-6.93176	-32.4319	1494474	1494474	
1494475	0.455546	0.505307	0.253694	0.367649	0.451428	0.327483	0.397948	0.190435	0.415581	25	30.0796	-8.68867	21.12844	-9.60563	1494475	1494475	
1494476	0.333914	0.39642	0.237893	0.281116	0.258178	0.272776	0.070676	0.308883	0.196377	43	-9.0274	-32.0377	-6.951176	-32.4319	1494476	1494476	
1494477	0.384345	0.624489	0.610528	0.510515	0.695159	0.174614	0.054147	0.751004	0.62115	122	9.33993	6.279617	9.52419	7.998142	1494477	1494477	
1494478	0.433104	0.961548	0.620927	0.886503	0.966836	0.950579	0.997265	0.940377	0.997035	26	-6.79981	53.30278	-5.89616	52.43982	1494478	1494478	
1494479	0.464036	0.85759	0.378557	0.392681	0.380326	0.270656	0.026974	0.024649	0.547702	3	36.92523	-24.6249	26.87992	-21.7032	1494479	1494479	
1494480	0.344261	0.985905	0.3145	0.815	0.784475	0.460203	0.152563	0.514604	0.349647	74	7.56528	13.89138	8.247137	9.308492	1494805	1494805	
1494481	0.870417	0.775081	0.503628	0.893238	0.940675	0.781937	0.991577	0.743715	0.897896	40	-1.41839	53.82775	-2.23823	53.4397	1494463	1494463	
1494482	0.502589	0.917159	0.270194	0.595008	0.851603	0.18943	0.259805	0.046976	0.48746	3	26.8811	-28.6762	26.87992	-21.7032	1499129	1499129	
1494483	0.106133	0.444566	0.181481	0.223801	0.120926	0.322191	0.006671	0.021913	0.080124	89	17.0823	-41.3799	15.76953	-41.5315	1499149	1499149	
1494484	0.265027	0.225074	0.254145	0.345074	0.274006	0.799239	0.010647	0.011645	0.180353	16	9.361856	-37.2035	5.26426	-40.6637	1491427	1491427	
1494485	0.436355	0.947231	0.938316	0.848704	0.859877	0.907466	0.987323	0.733015	0.925844	165	-8.47965	52.98028	-9.48024	52.46748	1494457	1494457	
1494486	0.246364	0.63014	0.494485	0.494485	0.592364	0.561506	0.550078	0.152525	0.409486	58	13.51117	-3.68023	13.60687	-2.17455	1486703	1486703	
1494487	0.820403	0.928119	0.979869	0.952452	0.981972	0.910322	0.927216	0.997826	0.988489	90	7.943667	55.33725	6.815041	55.77559	1484763	1484763	
1494488	0.675019	0.67249	0.763049	0.763719	0.728959	0.480946	0.406918	0.76759	0.745071	78	-1.06159	23.28621	-9.4593	21.00824	1494417	1494417	
1494489	0.261356	0.649615	0.766307	0.378916	0.436870	0.276155	0.110669	0.263893	0.143016	39	13.5095	-25.4157	16.12885	-22.5866	1494443	1494443	
1494490	0.187506	0.133687	0.539622	0.117949	0.444824	0.1687	0.018862	0.104658	0.048239	135	-0.85597	-42.5852	-1.42687	-42.7889	1494439	1494439	
1494491	0.481918	0.217063	0.171141	0.376501	0.177548	0.777372	0.57964	0.015659	0.04107	85	3.97945	-24.6866	3.543151	-25.0587	1494438	1494438	
1494492	0.494316	0.282248	0.097234	0.242945	0.164626	0.556771	0.600297	0.105717	0.181476	59	3.206652	-25.4388	3.540151	-25.0587	1494433	1494433	
1494493	0.156166	0.148683	0.291319	0.200913	0.220898	0.465927	0.115948	0.198443	0.276335	4	-4.28727	-39.5939	5.776829	-39.4989	1489741	1489741	
1494494	0.260897	0.223752	0.503735	0.155195	0.50446	0.299342	0.157281	0.081008	0.385932	11	-0.52598	-26.5984	4.90637	-13.5965	1492801	1492801	
1494495	0.136666	0.076943	0.102863	0.127114	0.118596	0.539322	0.237973	0.020572	0.058872	65	-2.5999	-58.0495	5.129844	-45.4934	1485591	1485591	
1494496	0.833073	0.63377	0.794158	0.563545	0.924508	0.890256	0.994498	0.499765	0.573069	9	-19.4296	47.58305	-19.8416	45.00304	1493659	1493659	
1494497	0.428748	0.594515	0.25794	0.362896	0.351557	0.217322	0.09110	0.161958	0.248367	132	30.15762	-27.1159	20.42041	-29.4959	1494466	1494466	

FIG. 12

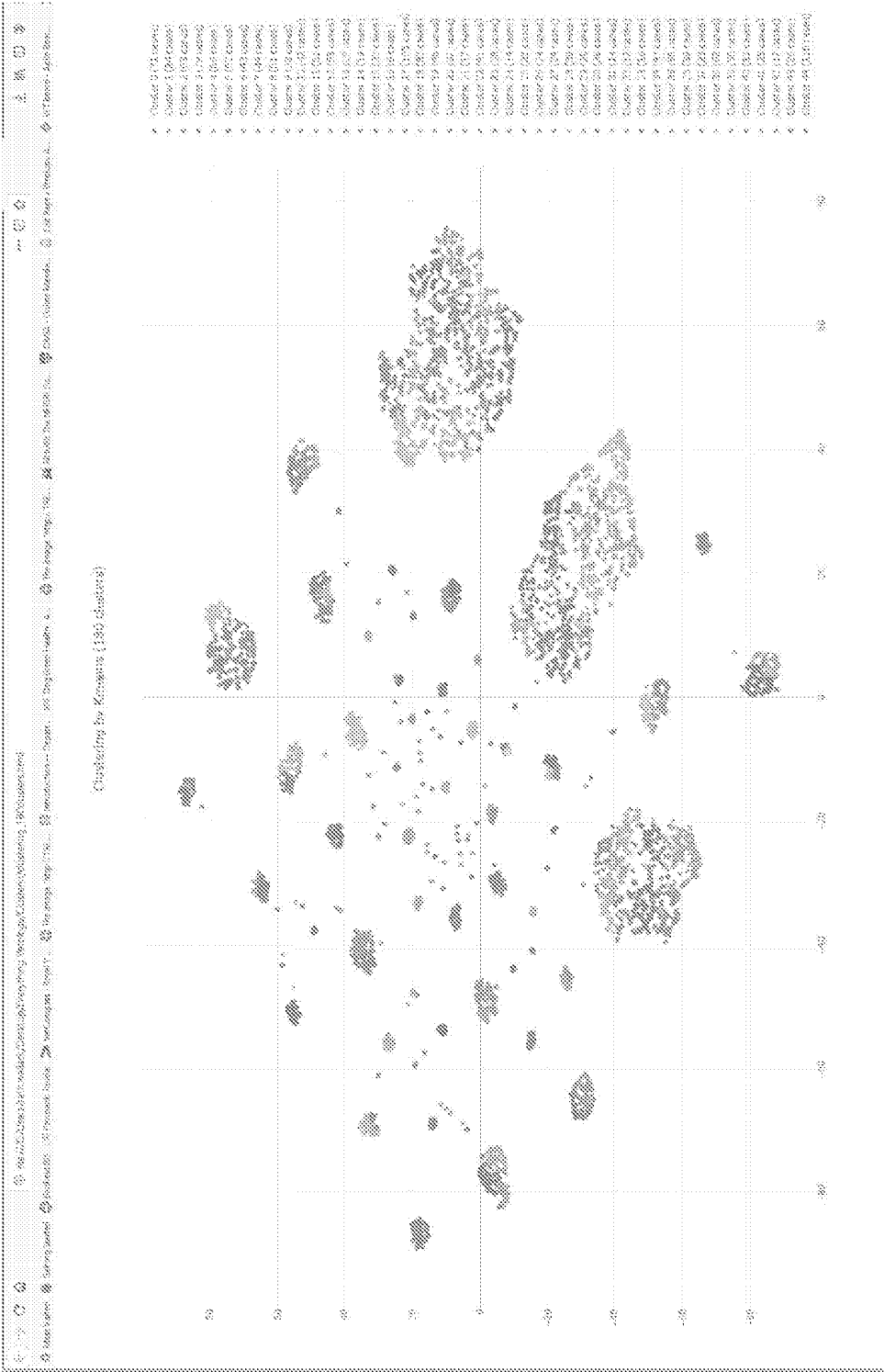


FIG. 13

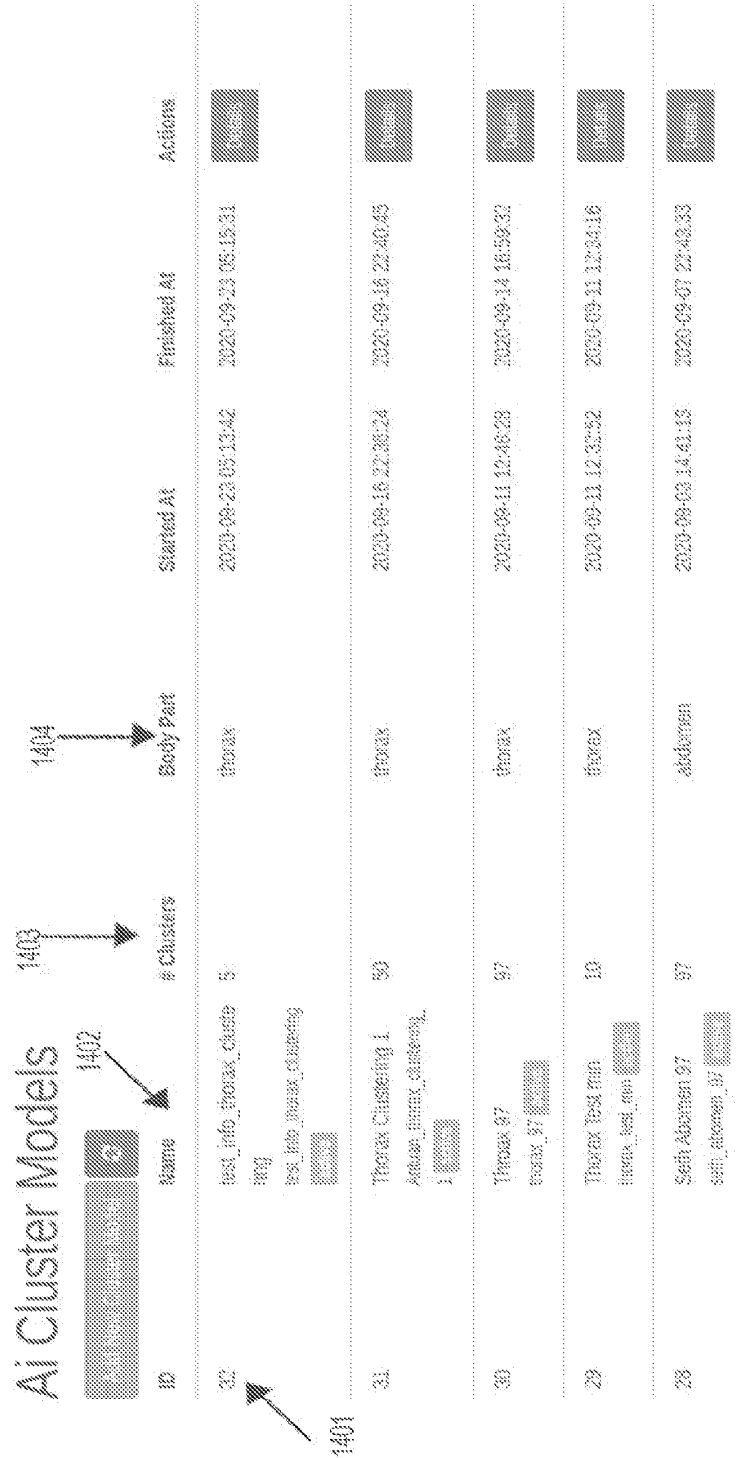
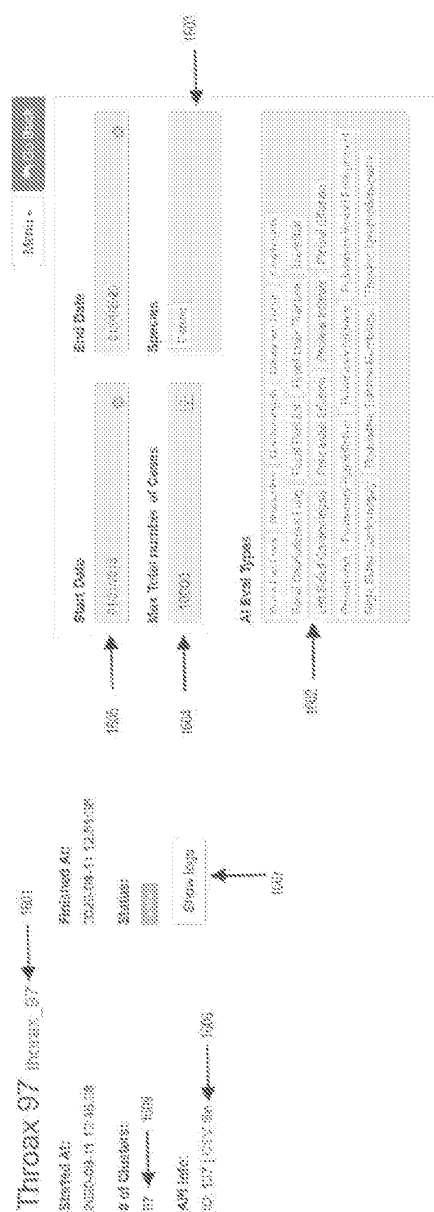


FIG. 14

Screening Evaluation Config

Cardiopulmonary						
ID	Name	Code	Title	Body Region	Cluster Model	Status
1	Vetology AI Rapid Cardiopulmonary Evaluation- Current	thorax_screening	CANINE AI Cardiopulmonary Screening	thorax	Thorax Clustering 1 Disabled	1502 1503
						2019-02-20 16:01:47
						Actions
2	Vetology AI Abdomen Screening	abdomen_screening	AI Abdomen Screening	abdomen	Seth Abdomen GT Enabled	2020-06-16 07:05:16
						Actions
4	example	example_code	None	thorax	Thorax clustering with new models Enabled	2020-07-02 15:26:41
						Actions

FIG. 15



AI Clusters  100					15th	
ID	Age	Gender	City	Case ID	Gender	Age
705	1	M	1,420,074,10,064	1,420,074	M	1
706	2	F	4,405,140,061,77,031	4,405,140,061,77,031	F	2
707	3	M	5,366,375,02,012	5,366,375,02,012	M	3
708	4	F	2,145,015,14,017,34	2,145,015,14,017,34	F	4
709	5	M	2,812,017,06,009	2,812,017,06,009	M	5
710	6	F	3,05,002,70,02,00,00	3,05,002,70,02,00,00	F	6
711	7	M	2,24,001,20,00,77,00,0	2,24,001,20,00,77,00,0	M	7
712	8	F	1,74,000,72,05,00,0	1,74,000,72,05,00,0	F	8

FIG. 16A



Evaluation Models Config

Add Evaluation Item					
ID	Name	Code	Status	Body Region	
1	Ventrol Heart Score	lhs		thorax	Actions ▼
2	Pedicle Infiltrate	pedicle_infiltrate		thorax	Actions ▼
3	Pneumonia	pneumonia		thorax	Actions ▼
4	Bronchitis	bronchitis		thorax	Actions ▼
5	Interstitial	interstitial		thorax	Actions ▼
6	Diseased Lungs	diseased_lungs		thorax	Actions ▼

FIG. 16C

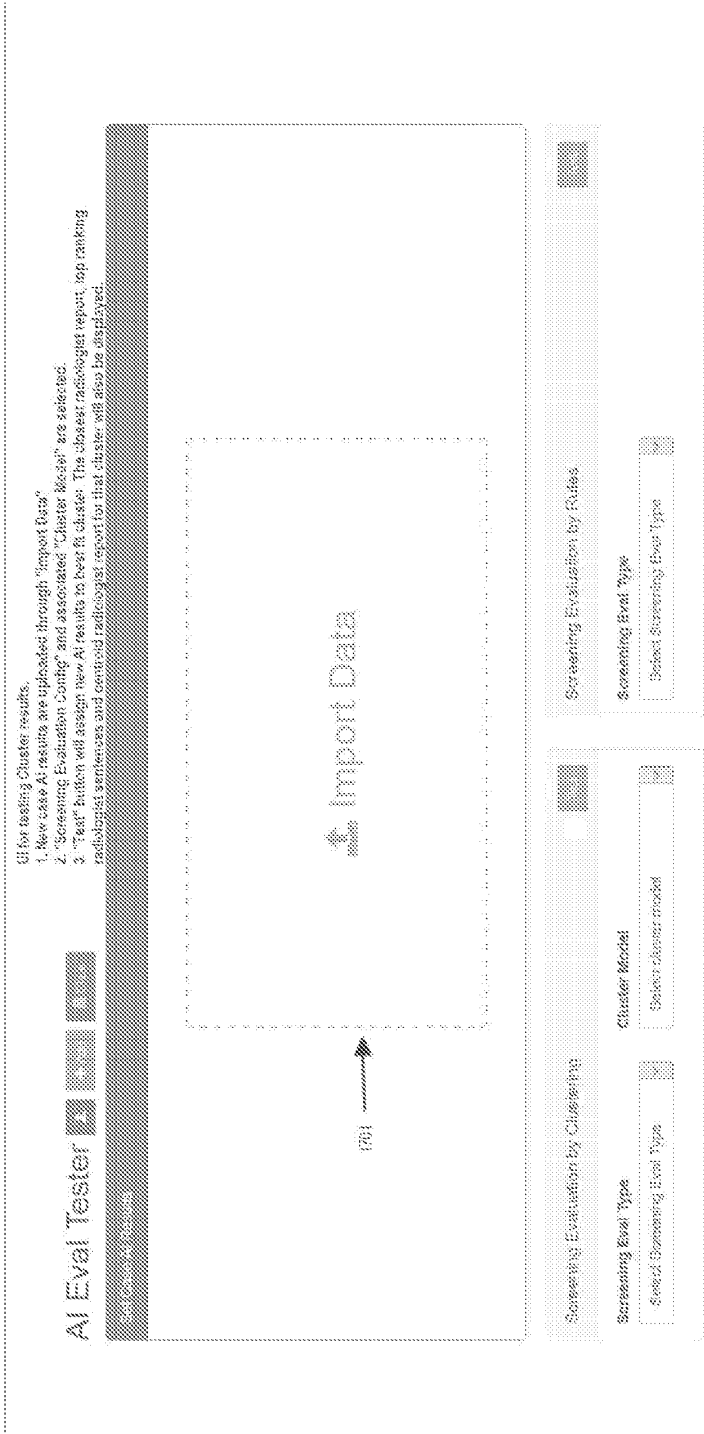


FIG. 17A

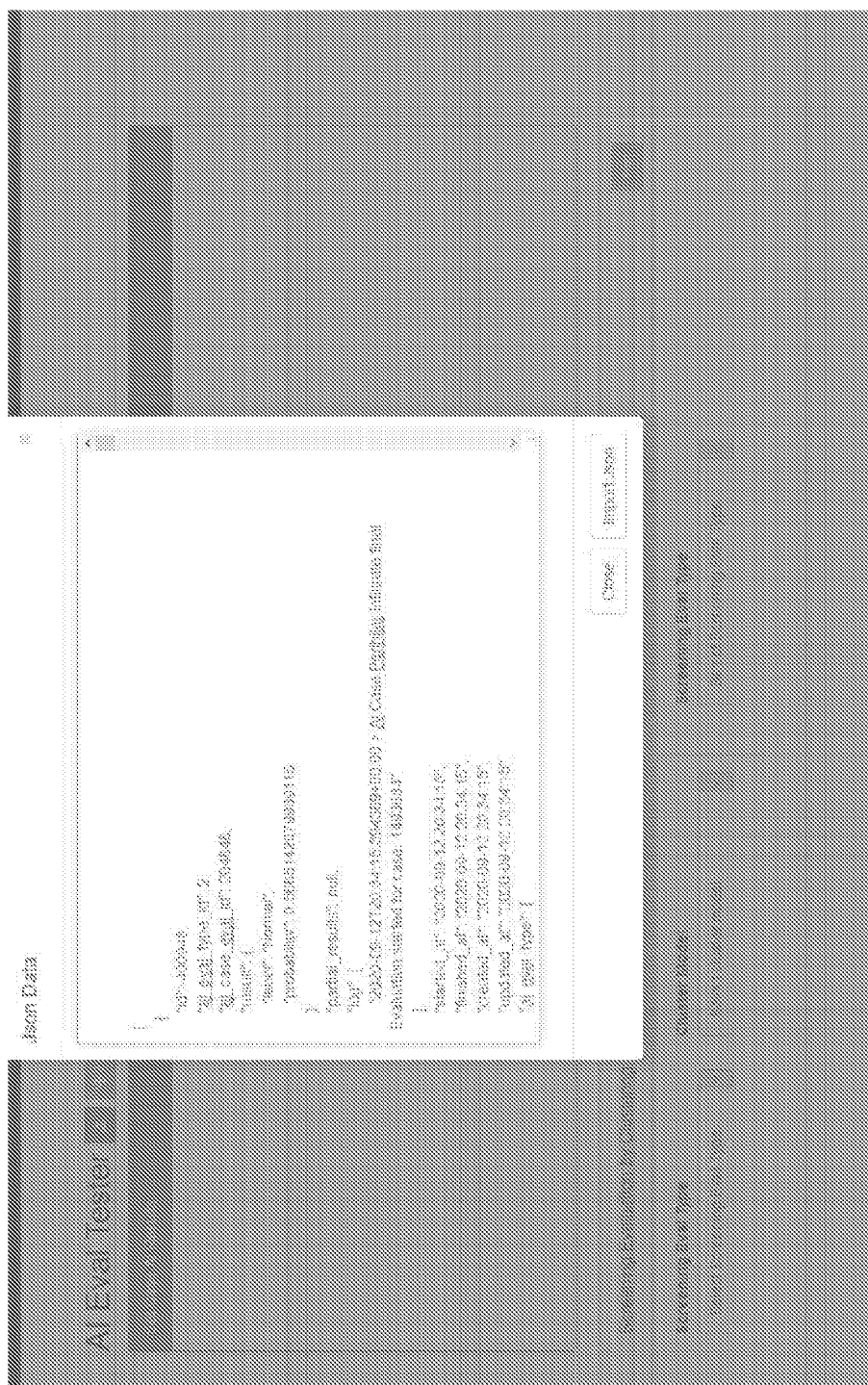
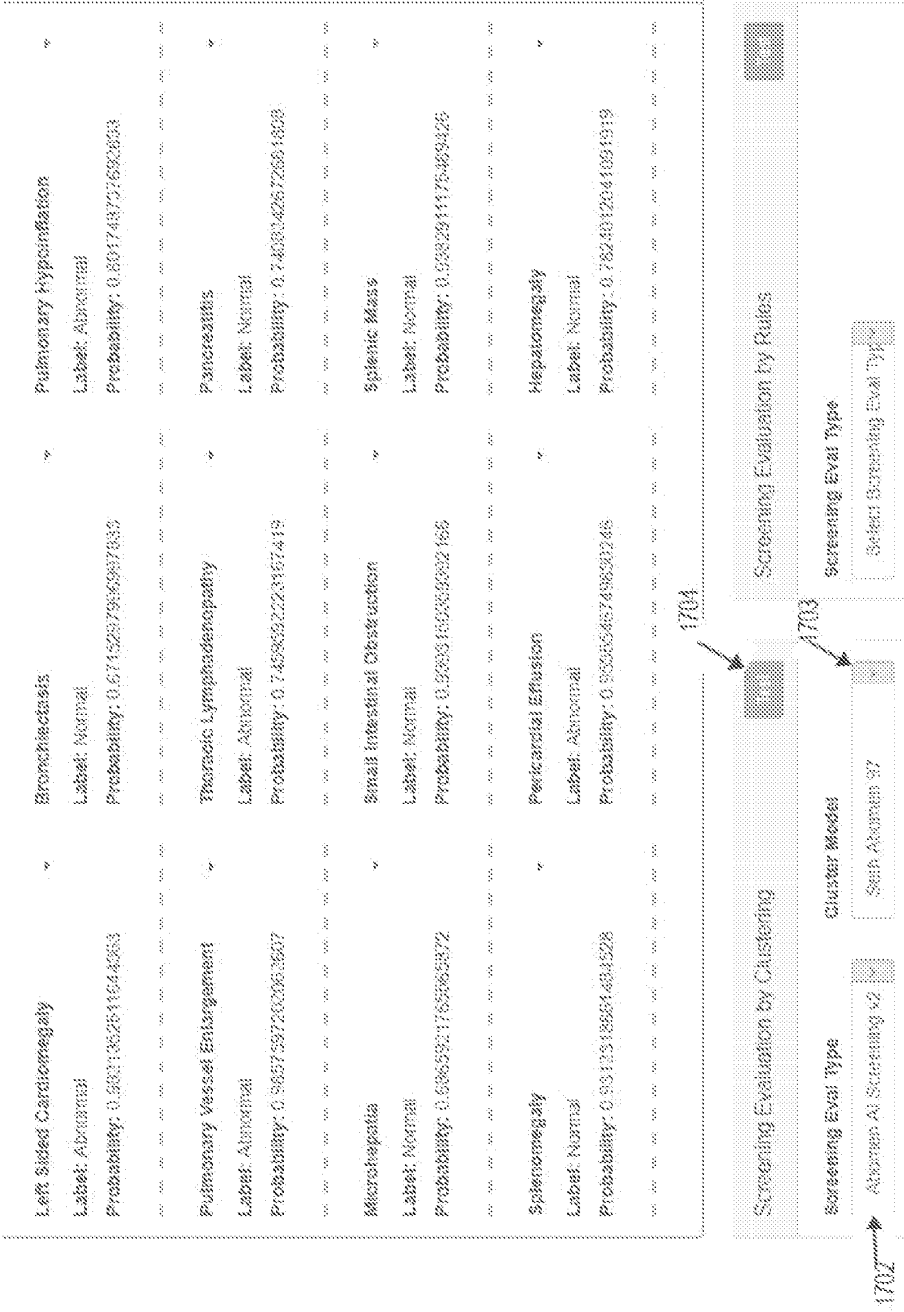


FIG. 17B

[illegible]

FIG. 17C



Body Part Screening Result

Abomen AI Screening v2

{

"code": "clustering_result"

}

Conclusion

No definitive abnormal abnormalities are appreciated.

Gastroenteritis is suspected. There is no evidence of small bowel obstruction.

This is of doubtful clinical significance at this time.

Gastric contents may represent residual ingesta and administered medications.

Evaluation findings

finding_testA

1) A ventral dorsal and both lateral radiographs of the abdomen are provided

2) There is no effusion.

3) The stomach contains a moderate amount of soft tissue opacity that is stippled with gas.

4) A few punctate mineral densities are also present within the stomach.

5) Small intestines are minimally filled.

6) The cecum is gas dilated.

7) Small volume formed feces is present in the distal colon.

8) The liver, spleen, and left kidney are normal size.

9) The right kidney is incompletely visible.

10) No osseous abnormalities are present.

11) The prostate is moderately enlarged consistent with the reproductive status of this patient.

← 1801

← 1802

FIG. 18A

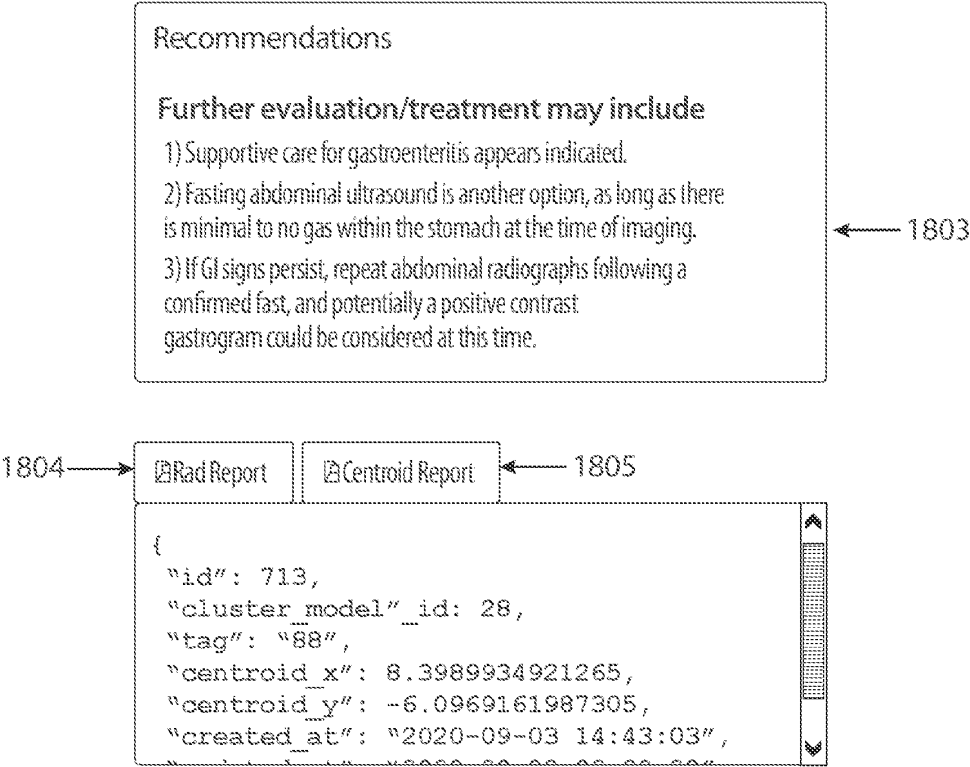


FIG. 18B

VetImages

HomeAI Evaluation ProcessConfigurationOld FeaturesReportsSuper Administrator

Go Back

AI Cluster Tag :

Ranking Sentences

Scope:

All

ID	Sentence	Ranking	Scope	Started At
72841	Large soft tissue opacity mass effect in the caudal thorax.	1	1806 → conclusion	2020-09-14 16:58:501 sentences
72834	Orthogonal radiographs of the thorax are submitted for review.	1	1807 → finding	2020-09-14 16:58:501 sentences
72845	Further imaging is needed	1	1807 → recommendation	2020-09-14 16:58:511 sentences
72842	The primary differential is neoplasia associated with the accessory lung lobe.	2	conclusion	2020-09-14 16:58:501 sentences
72835	The cardiac silhouette and pulmonary vasculature appear within normal limits	2	finding	2020-09-14 16:58:501 sentences

FIG. 18C

[illegible]

816

DNR Age (yr DOB): Gender: Species: Weight:	REVIEW TYPE ☐ Radiographic Contrast Study ☐ Ultra sound ☐ CT ☐ MRI ☐ Nuclear Medicine ☐ Case Consult ☒ Non-Ethical for referral ☒ I-131 Canine Thyroid ☐ Internal Radiology Review ☐ CT (2 Regions) ☐ MRI (2 Regions) ☐ Non-Exam and review ☐ Thorax(60) ☐ Abdomen(60) ☐ Case Assessment (100) ☐ Radio-Therapy ☐ Radio-Abdomen ☐ Radio-Breast/Trachea ☐ Radio-Hindlimbs ☐ Radio-Spine ☐ Radio-Scull ☐ Radio-2 regions
--	---

☐ All diagnoses ☐ Atherosclerosis ☐ Canine Colitis-Purina EN Fiber ☐ Canine Cystic Calculus-Purina ☐ Canine GI disease-Purina ☐ Canine Kidney related cardiomegaly ☐ Canine Left sided cardiomegaly ☐ Canine Abductor Pollicis Longus ☐ Canine Abnormal Lungs ☐ Canine Abnormal Thorax ☐ Canine Aesophagus ☐ Canine Artery Collapsed ☐ Canine Atherosclerosis ☐ Canine Bone and Heart base ☐ Canine Joints ☐ Canine Blurry Mineralization ☐ Canine Bronchial Pattern ☐ Canine Bunches/Intestinal Pile ☐ Canine Cardiomegaly Training ☐ Canine Cardiac Dig. Ab Mass ☐ Canine Caudal Abdominal Mass ☐ Canine Contoured Lung ☐ Canine CClapure Acute ☐ Canine CClapure Chronic ☐ Canine Cysts ☐ Canine Constipation ☐ Canine Craniocervical Mass ☐ Canine Cranial Abnd Mass EN ☐ Canine Cranioventral Lung ☐ Canine Cystic Arthropathy	RECOMMENDATIONS Safe for thyroid scan and sedation. Consider enteric contrast ultrasound in 8-12 months after hyperthyroidism is treated.
--	---

☐ You are screen sharing ☐ Stop share

FIG. 18



Full Report

Tests: Thorax

Case	Patient	Clinic Doctor
ID 1493684	Name:	
DOS 04/23/2020	Current Age:	
Priority Normal	Age when report:	
Clinic	Sex:	Consultant
	Species: canine	
	Breed: labrador	
	Weight: 41.80 lb	

History

Chronic non productive cough, eating/drinking WNL. Blood work sent to the lab. Heart worm test-negative

Findings:

Three good-quality orthogonal thoracic radiographs dated are available for review. There are no previous radiographs available for comparison.

Airway findings: The trachea, tracheal bifurcation and carina are normal. There is a moderate mainly bronchointerstitial pattern. The worst affected region as the right caudal along low. No masses or nodules are seen.

Cardiovascular findings: The cardiac silhouette is within normal limits. The cranial pulmonary veins are mildly enlarged. The right caudodorsal artery is border affected. The caudal vena cava is normal.

Mediastinum and pleural space: A mild amount of air is present in the cranial thoracic oesophagus.

Musculoskeletal findings: No significant abnormalities are detected.

Included abdomen: No significant abnormalities are detected.

Conclusions

1. The findings are consistent with lower airway infectious-inflammatory disease such as viral bronchitis/bronchopneumonia. Parasitic bronchitis, heart worm disease presents similarly, however heart worm test is negative. Eosinophilic bronchopneumopathy is unlikely, but cannot be excluded. Pulmonary oedema, consultation, thromboembolism is highly unlikely.

Recommendations

Considering chronicity, lower airway sampling, Baerman faecal evaluation should be considered. Alternatively empirical management and repeat radiographs prior to end of therapy may be considered.

FIG. 19

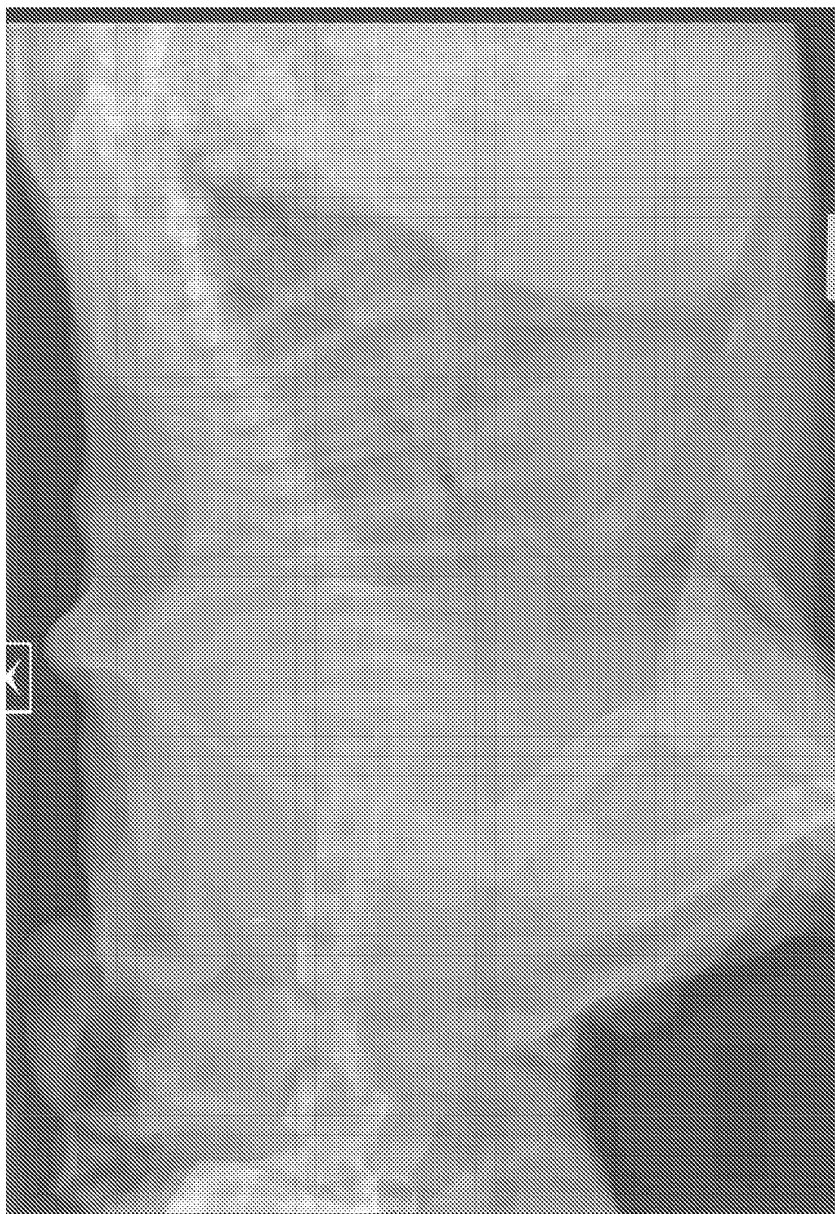


FIG. 20A



FIG. 20B

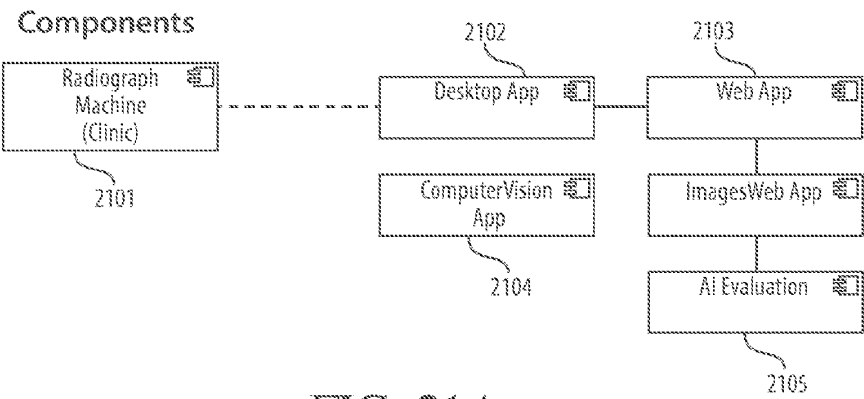


FIG. 21A

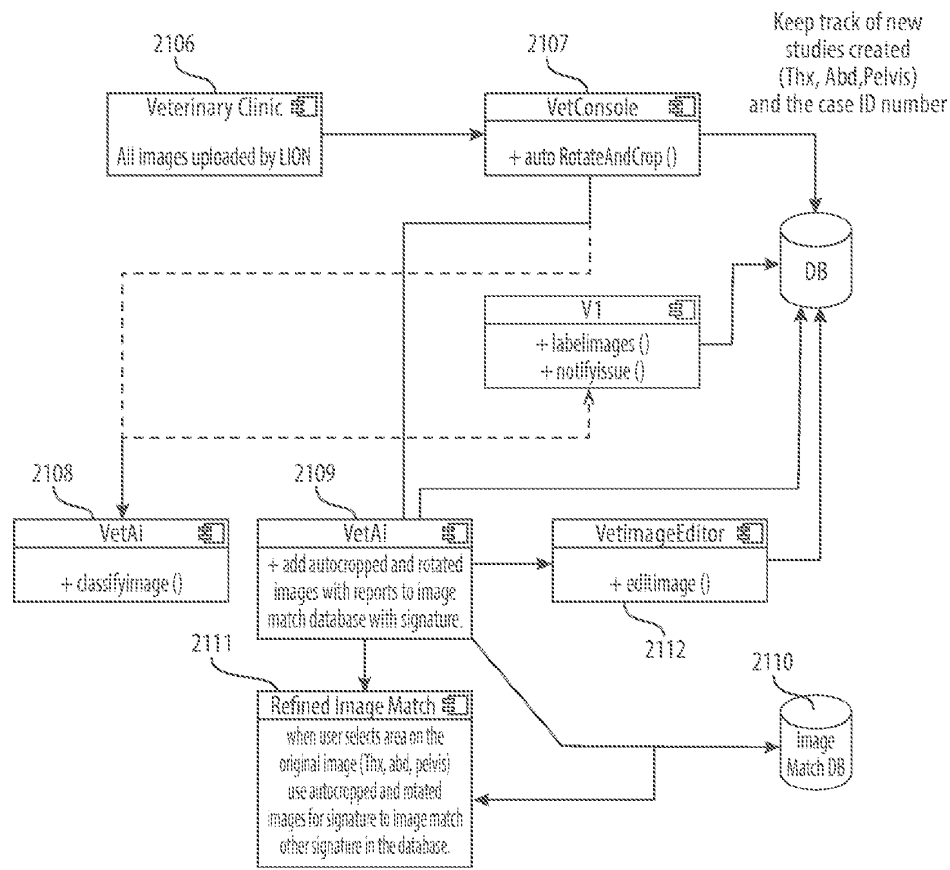


FIG. 21B

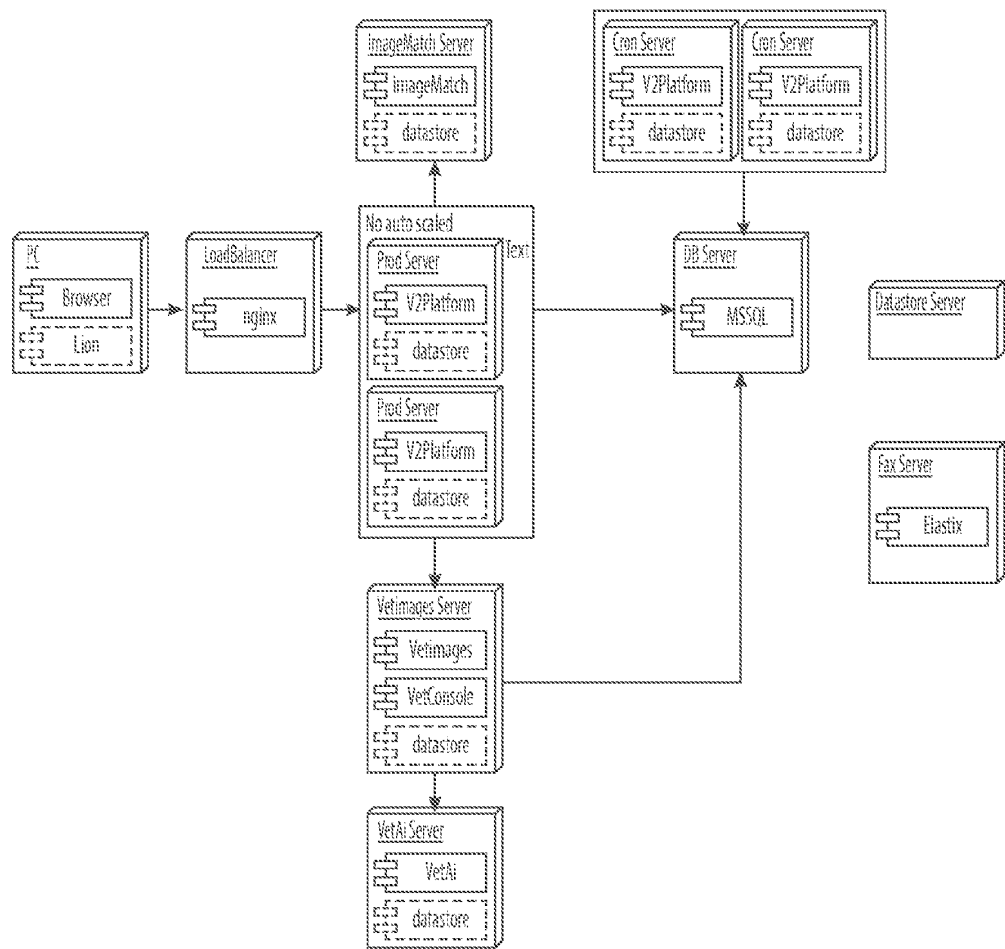


FIG. 22A

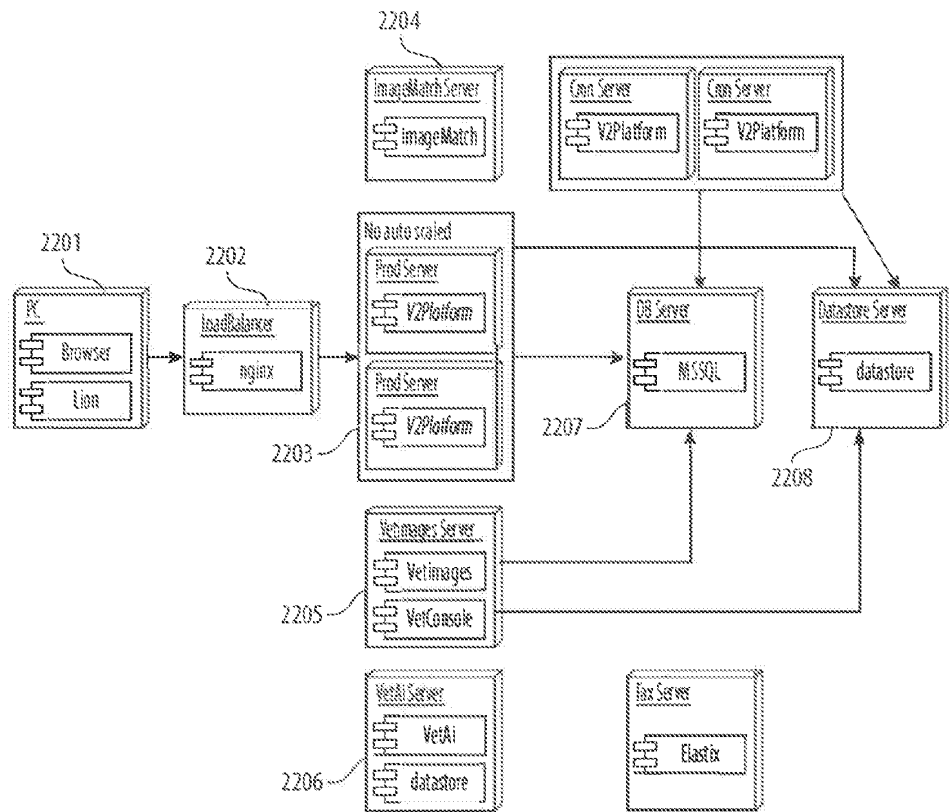


FIG. 22B

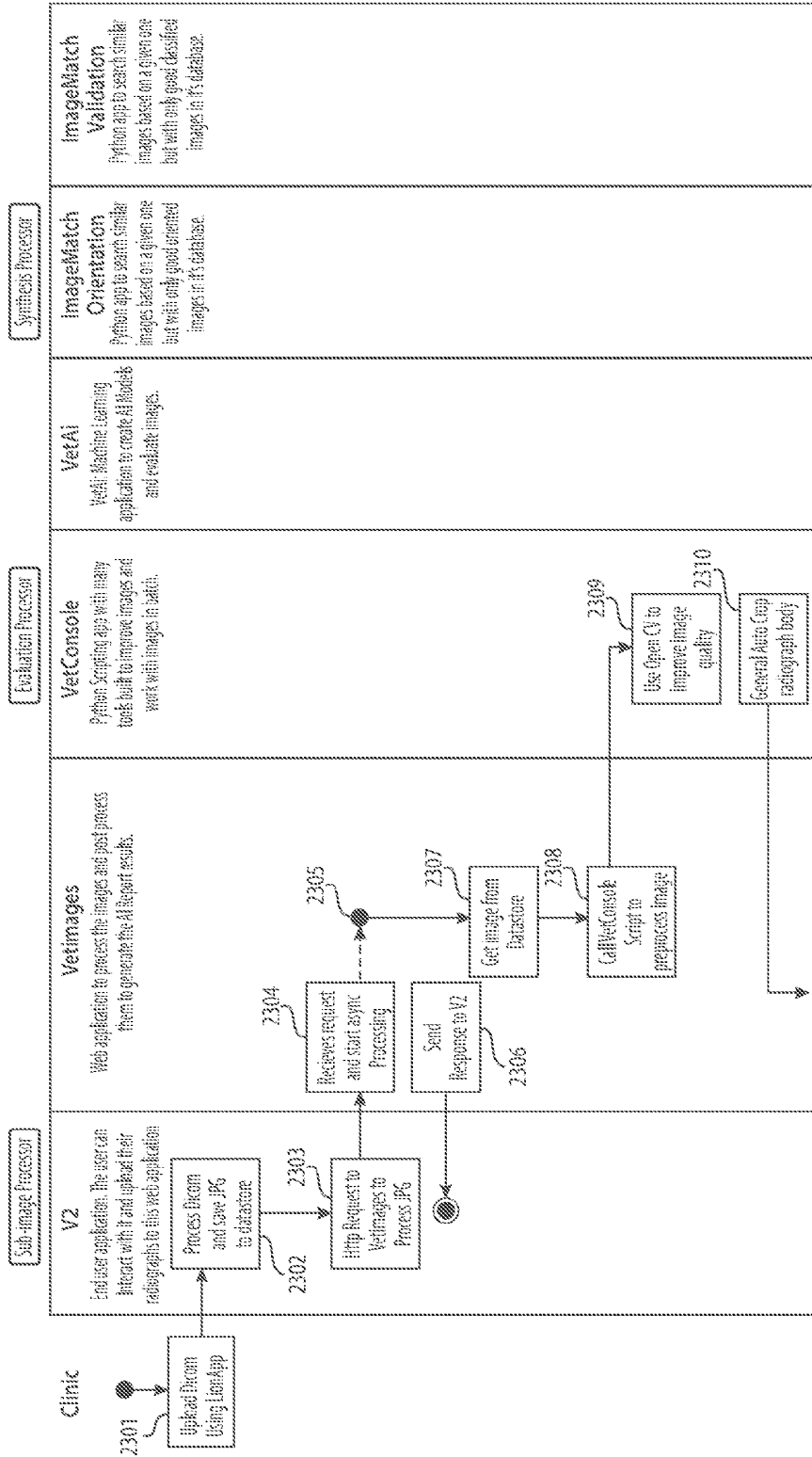


FIG. 23A

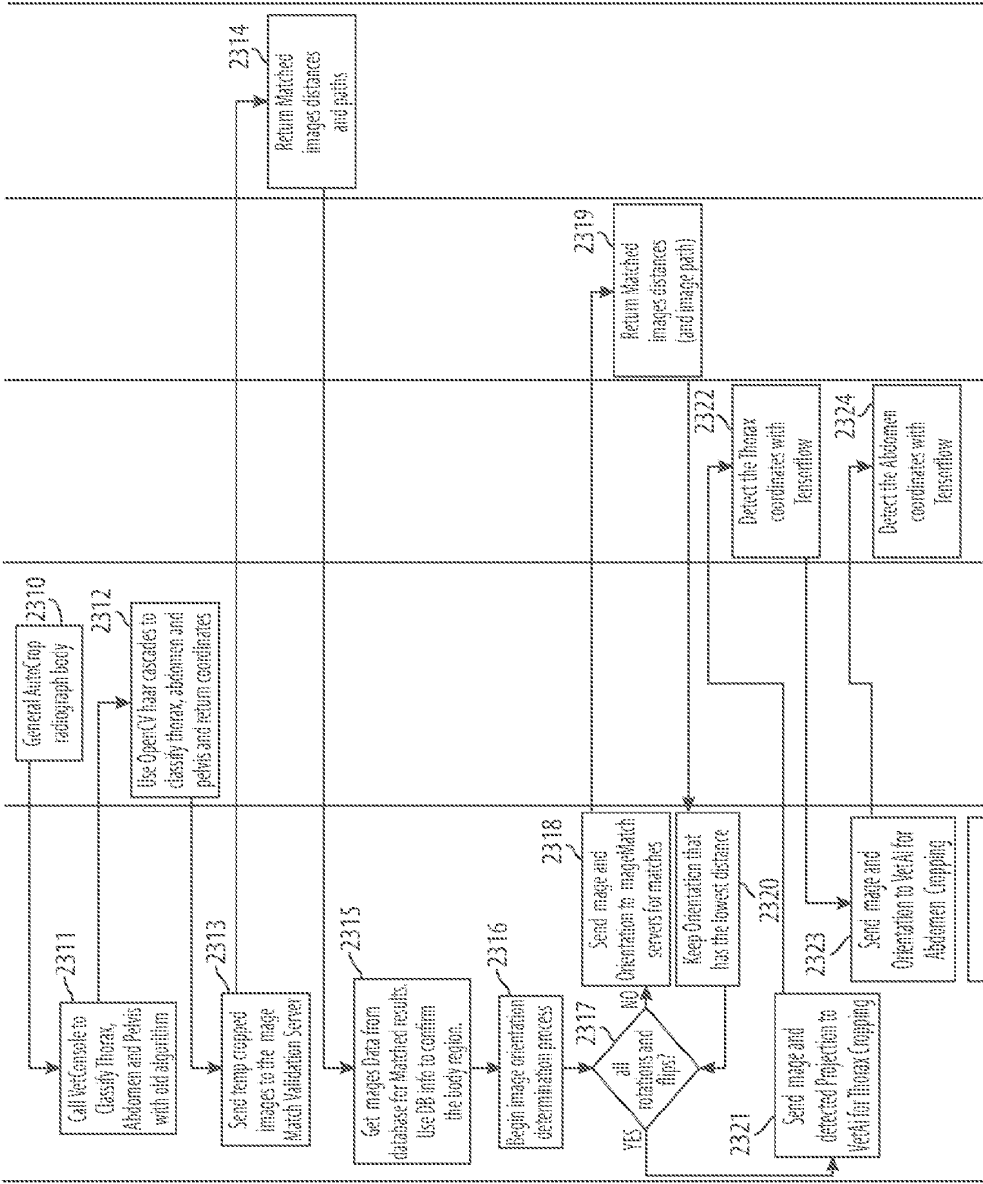


FIG. 23B

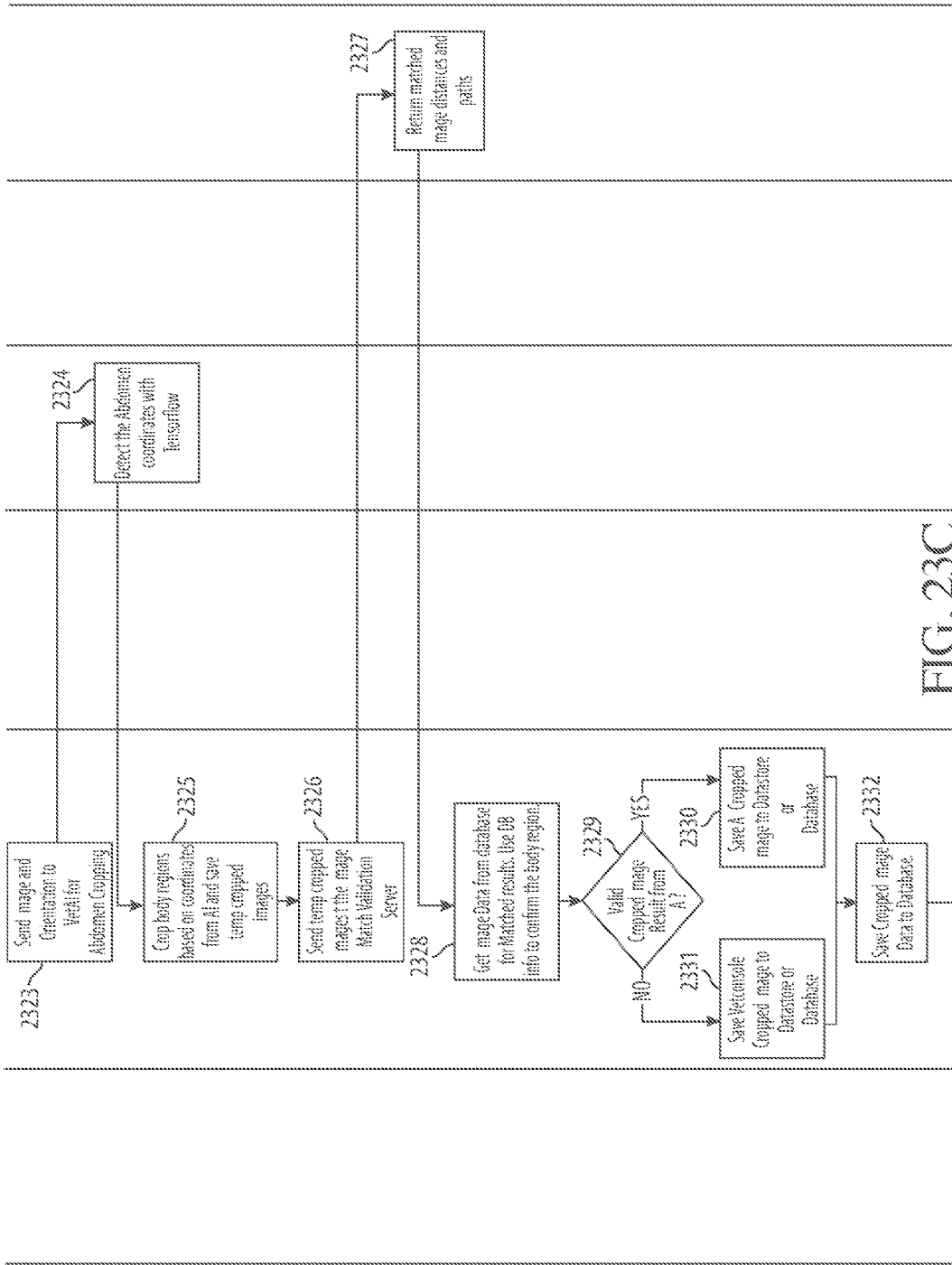
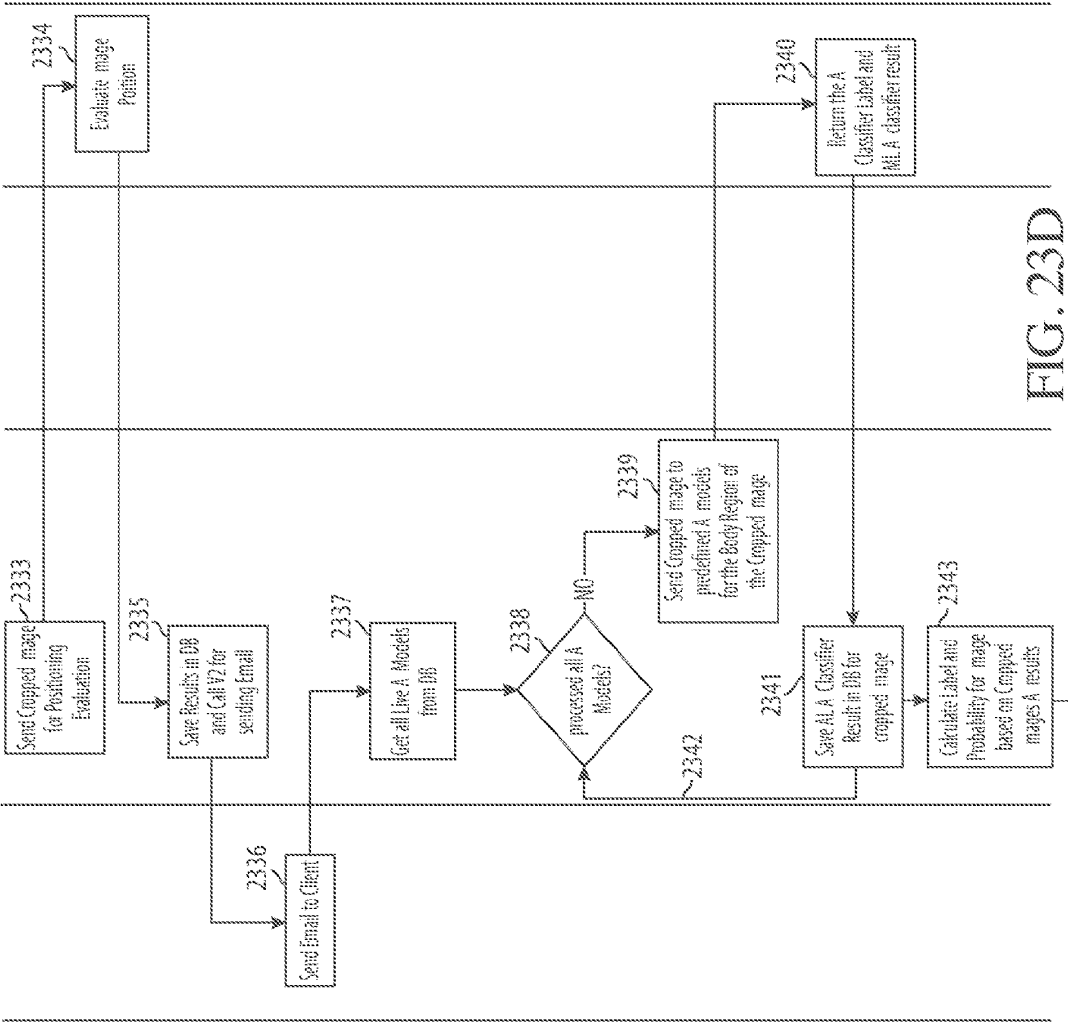


FIG. 23C



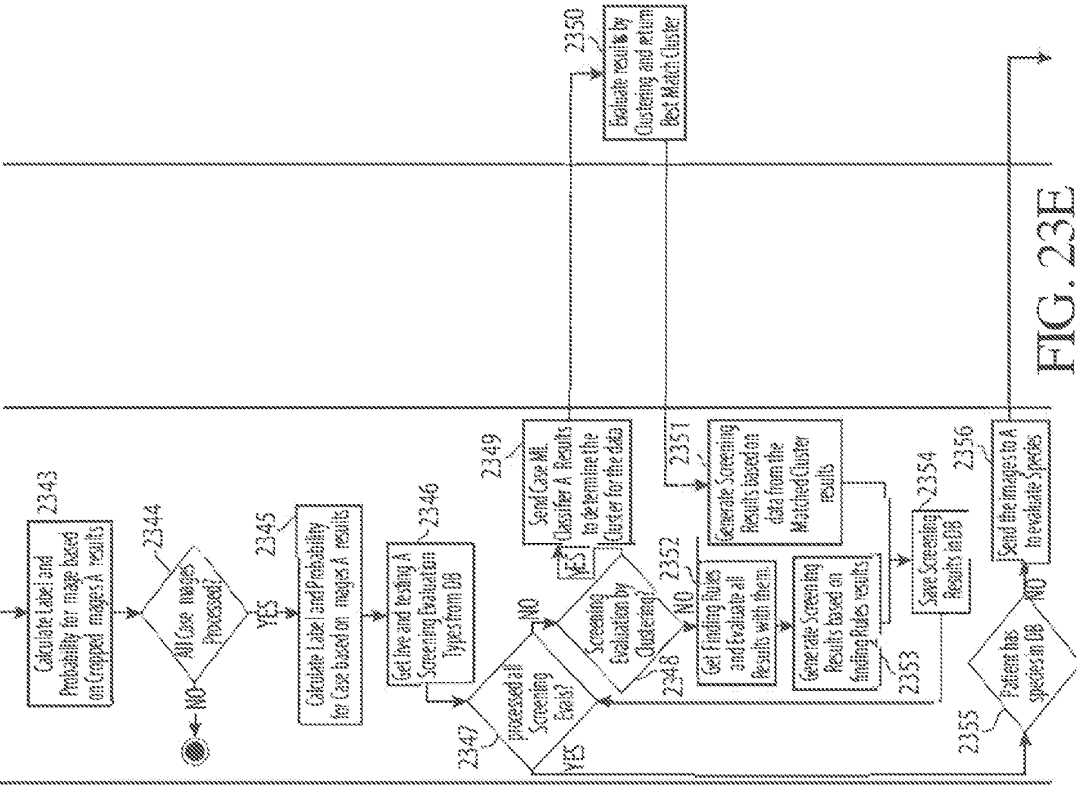


FIG. 23E

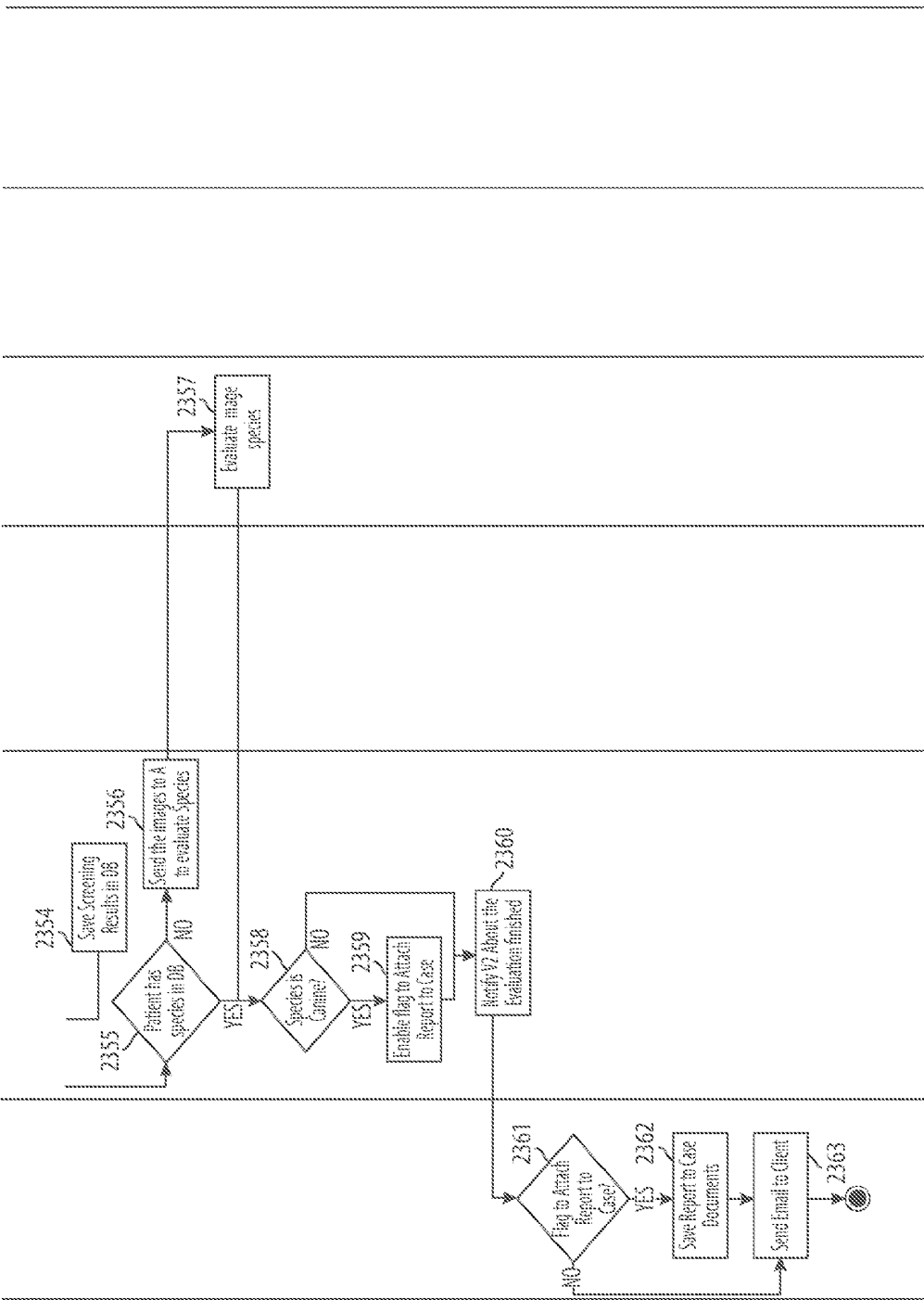


FIG. 23F

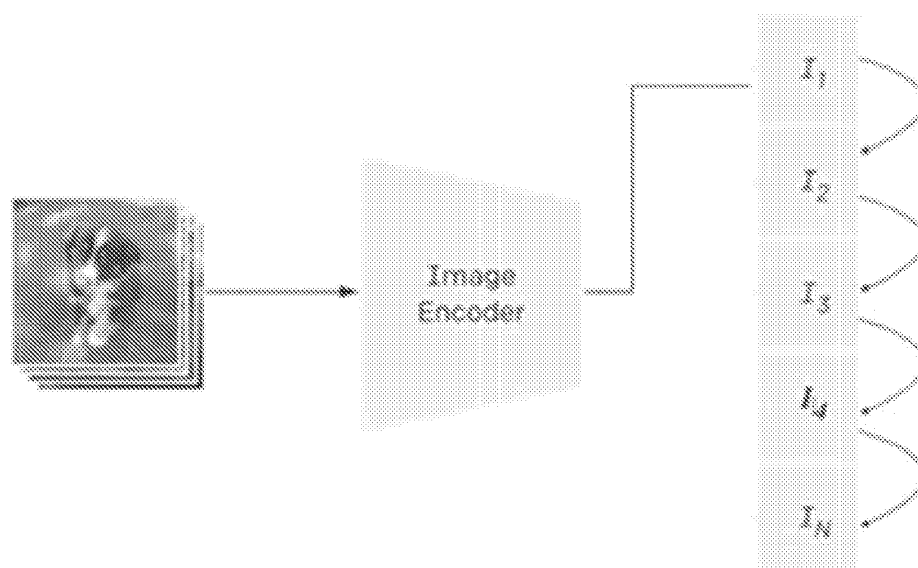


FIG. 24

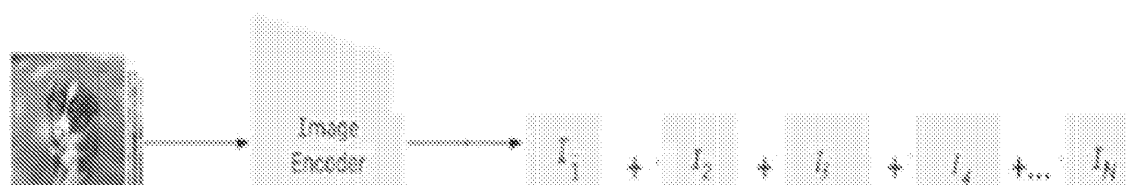


FIG. 25

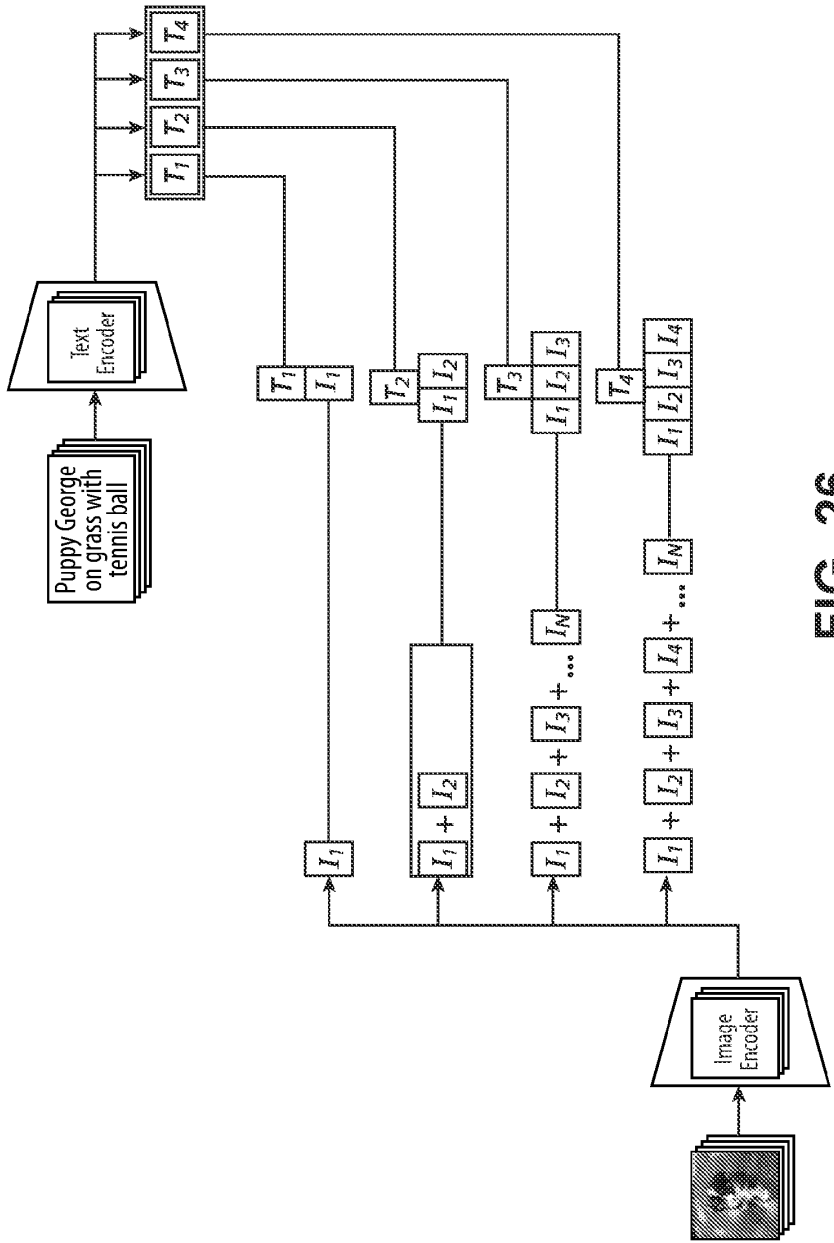


FIG. 26

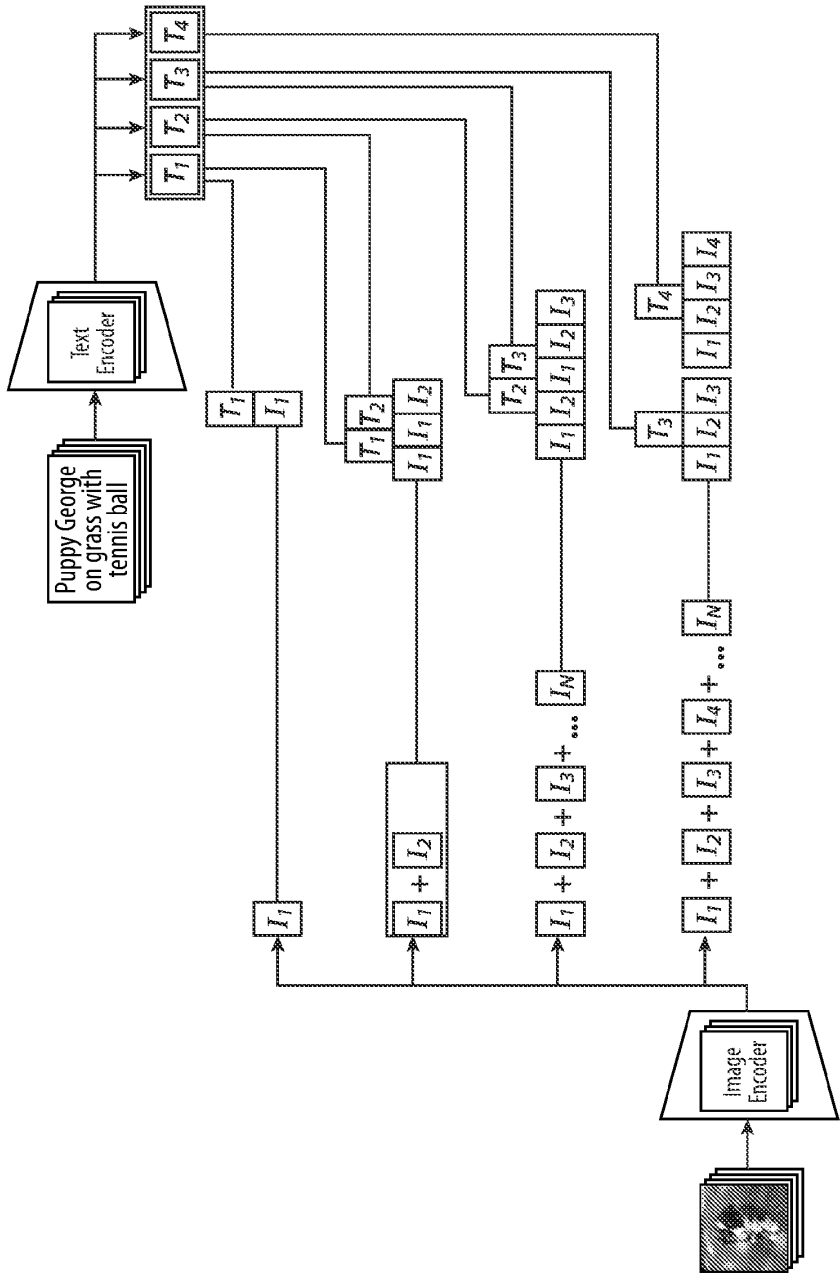
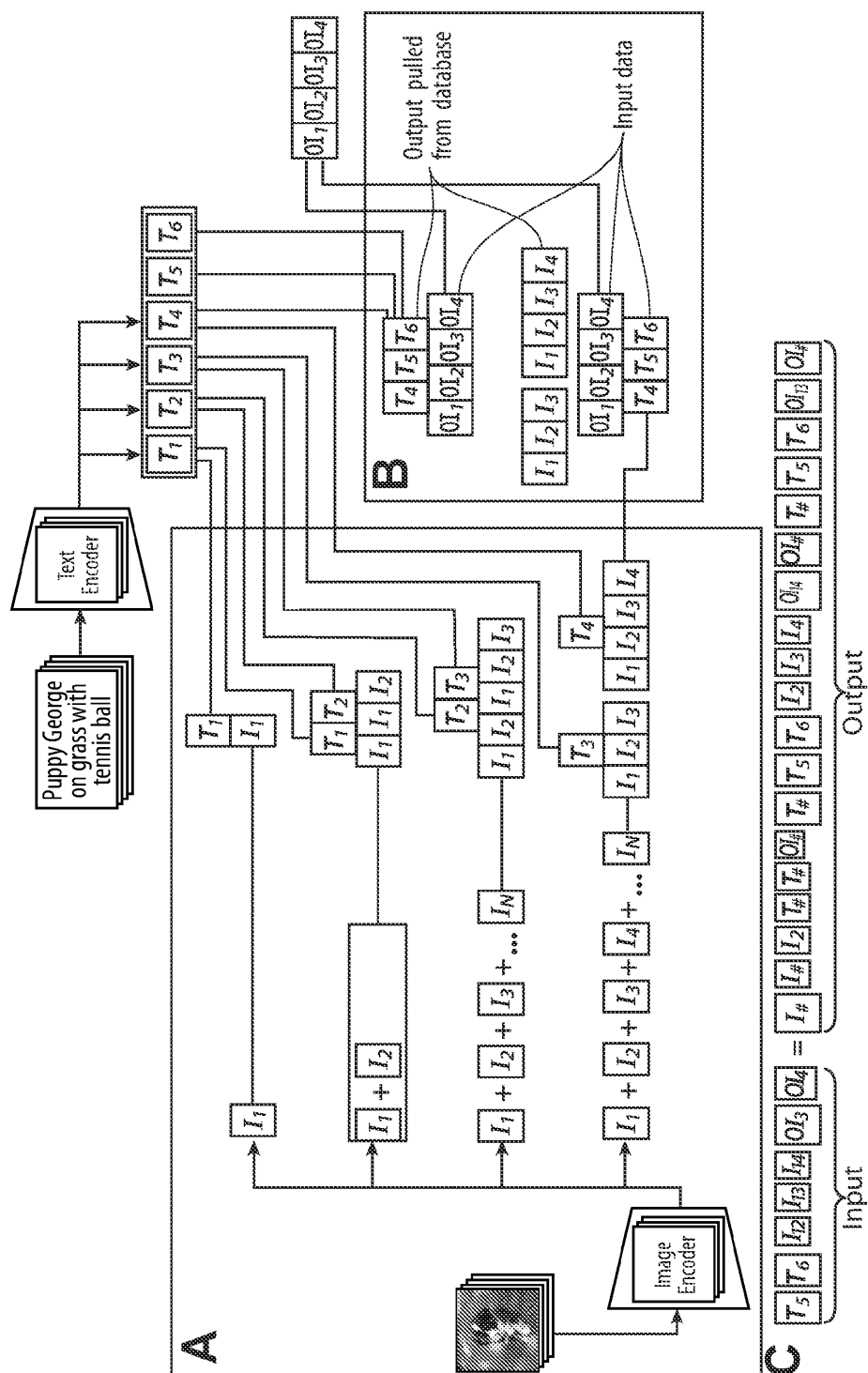


FIG. 27

28
G
F

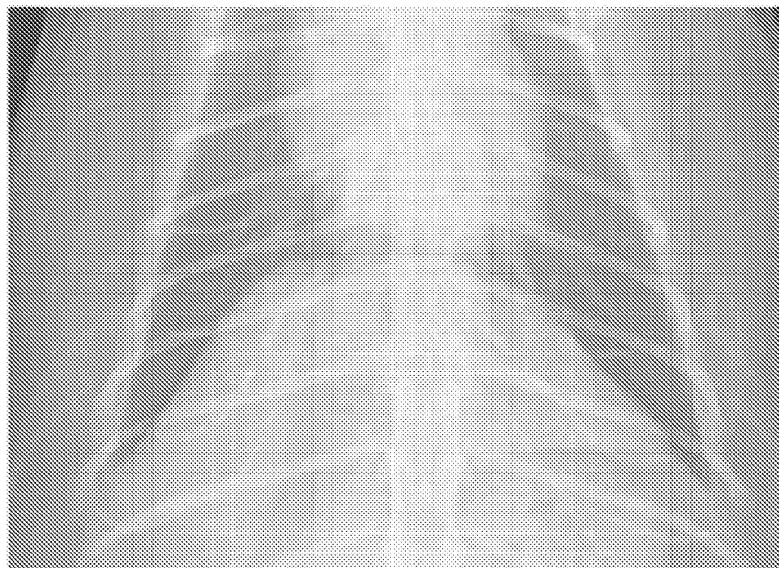


FIG. 29A



FIG. 29B