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(12) **United States Design Patent**  
**Hart**

(10) **Patent No.:** **US D746,910 S**  
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- (54) **CODING MATRIX TOOL**
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- (\* ) Notice: This patent is subject to a terminal disclaimer.
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/471,394**
- (22) Filed: **Oct. 31, 2013**
- (51) **LOC (10) Cl.** ..... **19-01**
- (52) **U.S. Cl.**  
USPC ..... **D19/1**
- (58) **Field of Classification Search**  
USPC ..... D19/1-12, 20-34; 206/449, 232, 495.5, 206/494; 40/124.01-124.15, 672, 776, 726; 229/72, 92, 92.1, 300-303, 87.06, 229/87.08, 87.14; 281/2-5, 16, 22, 51; 705/3; 283/2-3, 115, 900, 74-75, 103, 283/105-106; 428/42.3; D9/703, 707, 709, D9/713, 424, 414, 720, 418, 416; 426/106; 222/92, 107; 383/127, 106-108, 901, 383/200, 203, 207, 210; D20/10, 22, 40, D20/42, 11; D3/303, 203.1  
CPC .. B42D 15/022; B42D 15/045; B42D 15/042; B42D 15/027; B42D 15/08; B42D 1/00; B42D 25/29; B42D 25/00  
See application file for complete search history.

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(Continued)

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(57) **CLAIM**

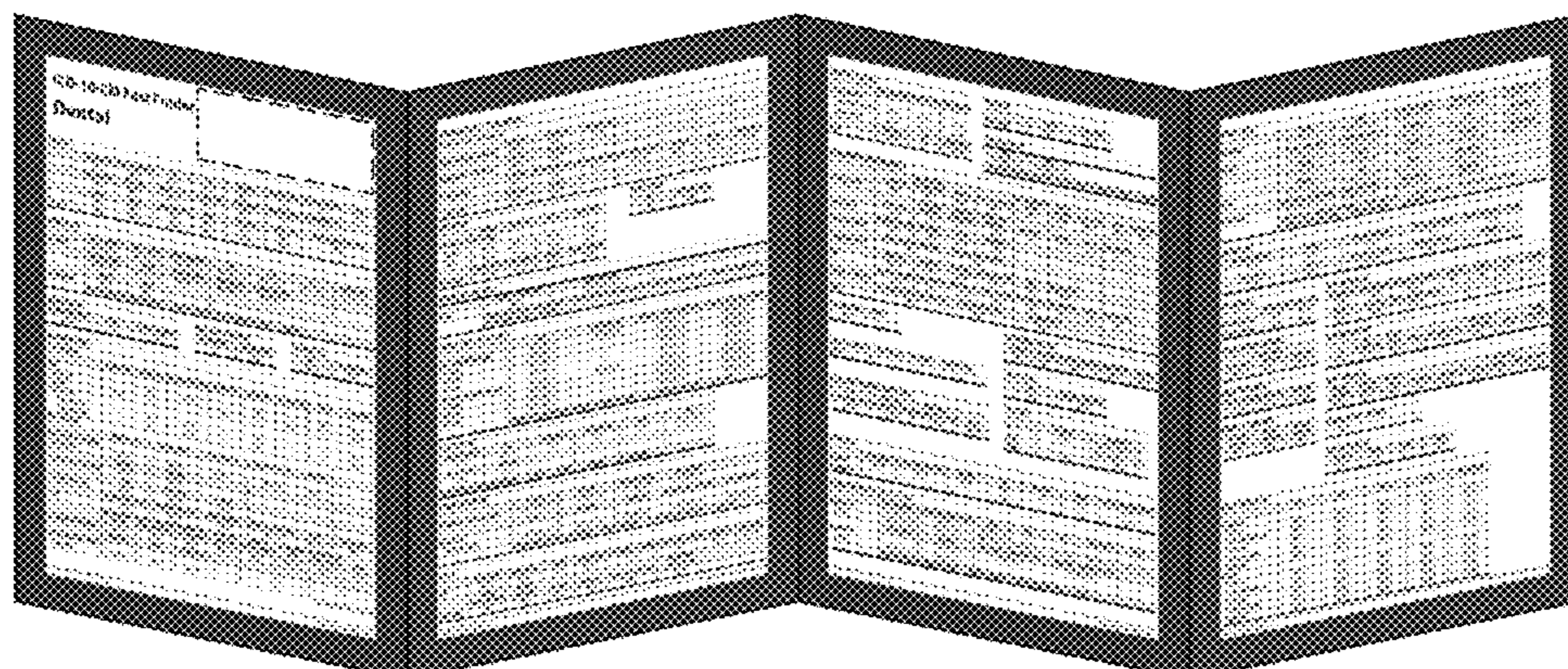
The ornamental design for a coding matrix tool, as shown and described.

**DESCRIPTION**

A portion of the disclosure of this patent document contains material to which a claim for copyright is made. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent file or records, but reserves all other copyright rights whatsoever. FIG. 1 is a first perspective view of the coding matrix tool in unfolded configuration showing my new design; FIG. 2 is a rear perspective view thereof; FIG. 3 is a front elevation view of the first panel thereof; FIG. 4 is a front elevation view of the second panel thereof; FIG. 5 is a front elevation view of the third panel thereof; FIG. 6 is a front elevation view of the fourth panel thereof; FIG. 7 is a rear elevation view of the fourth panel thereof; FIG. 8 is a rear elevation view of the third panel thereof; FIG. 9 is a rear elevation view of the second panel thereof; and, FIG. 10 is a rear elevation view of the first panel thereof. The broken line portions of the coding matrix tool are included for the purposes of illustrating environment only, and form no part of the claimed design.

**1 Claim, 10 Drawing Sheets**

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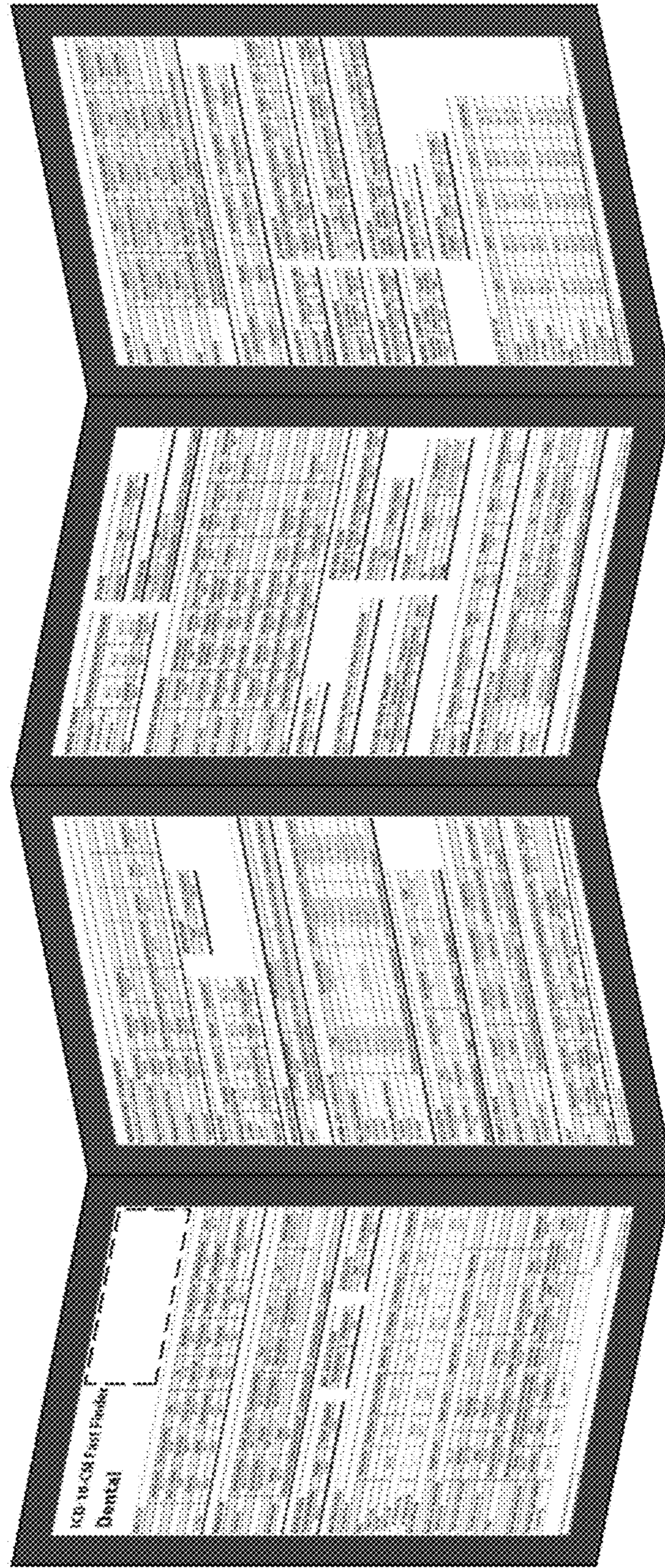


Fig. 1

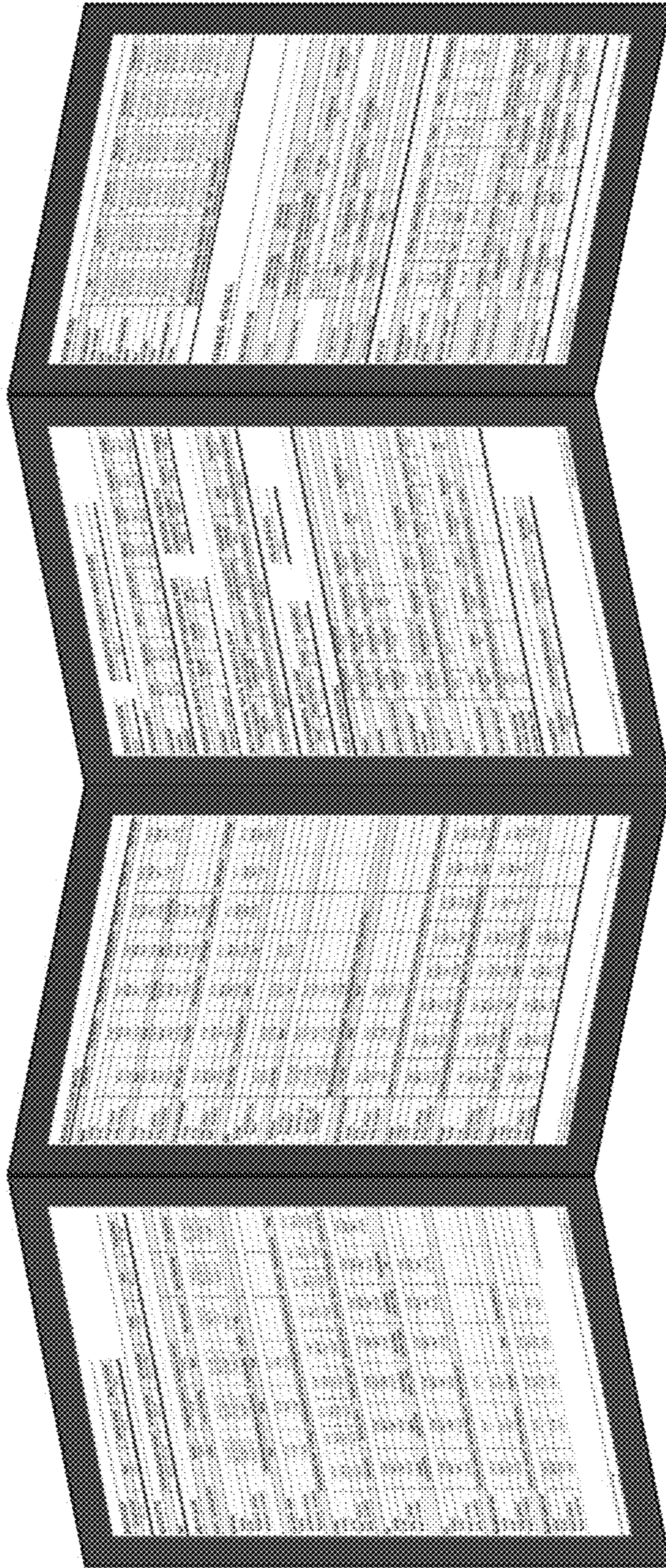


Fig. 2



ANOMALIES (CONTINUED)								
Dentofacial (continued)								
	Microgenia	Macrogenia	Prognathia					
Major anomalies of jaw size	807.01	807.02	807.03					
	807.01	807.02	807.03					
Engagement, soft tissue	807.01	807.02						
	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
Teeth position	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
	807.01	807.02	807.03					
Engagement	807.01	807.02						

ATROPHY					ATRICTION	
	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar
Alveolar, alveolar ridge	807.01	807.02	807.03	807.04	807.05	807.06
Alveolar	807.01	807.02	807.03	807.04	807.05	807.06
	807.01	807.02	807.03	807.04	807.05	807.06
Alveolar ridge	807.01	807.02	807.03	807.04	807.05	807.06

BURN AND CORROSION								
	1st	2nd	3rd	4th	5th	6th	7th	8th
Burn, superficial degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
1st degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
2nd degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
3rd degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
Corrosion, superficial degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
1st degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
2nd degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
3rd degree	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08

CECUMS					
Class	Code	Class	Code	Class	Code
Class	807.01	Class	807.02	Class	807.03
Code	807.01	Code	807.02	Code	807.03

COMPLICATION								
	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar
Alveolar, alveolar ridge	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
Alveolar	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
Alveolar ridge	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08

CYST								
	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar	Alveolar
Alveolar	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08
Alveolar ridge	807.01	807.02	807.03	807.04	807.05	807.06	807.07	807.08

Fig. 4

DENTAL CARIES			
	Unfilled enamel	Partial dentin	Penetrating
Cervical caries			
Enamel dentin caries	800.21	800.22	800.23
Dentin dentin	800.24	800.25	800.26
	800.27	800.28	800.29
Other	800.30	800.31	800.32

DISEASE		
	Other	Unspecified
Perforated	800.33	800.34

DISLOCATION		
	Other	Unspecified
Dislocation	800.35	800.36

DISORDER/DISTURBANCE									
	Abnormalities	Abnormalities in tooth shape	Abnormalities in tooth position	Abnormalities in tooth color	Abnormalities in tooth texture	Abnormalities in tooth sound	Abnormalities in tooth taste	Other	Unspecified
Developmental	800.40	800.41	800.42	800.43	800.44	800.45	800.46	800.47	800.48
	800.49	800.50	800.51	800.52	800.53	800.54	800.55	800.56	800.57
Abnormalities in tooth position	800.58	800.59	800.60	800.61	800.62	800.63	800.64	800.65	800.66
Abnormalities in tooth color	800.67	800.68	800.69	800.70	800.71	800.72	800.73	800.74	800.75
Abnormalities in tooth texture	800.76	800.77	800.78	800.79	800.80	800.81	800.82	800.83	800.84
Abnormalities in tooth sound	800.85	800.86	800.87	800.88	800.89	800.90	800.91	800.92	800.93
Abnormalities in tooth taste	800.94	800.95	800.96	800.97	800.98	800.99	801.00	801.01	801.02
Other	801.03	801.04	801.05	801.06	801.07	801.08	801.09	801.10	801.11

EMBEDDED TEETH	
	Other
Embedded teeth	801.12

EROSION, TEETH	
	Other
Erosion, teeth	801.13

EXFOLIATION, TEETH D/T SYSTEMIC CONDITION	
	Other
Exfoliation, teeth d/t systemic condition	801.14

EROSYOSIS	
	Other
Erosyositis	801.15

FAILURE, DENTAL IMPLANT	
	Other
Failure, dental implant	801.16

FISURE	
	Other
Fisures	801.17

FISTULA	
	Other
Fistula	801.18

FOREIGN BODY, EFFECTS OF	
	Other
Foreign body, effects of	801.19

Fig. 5

FRACTURE					
Condition	Class	Code	Subclass	Subcode	Subdescription
Maxillary	K07.01	K07.01.01	K07.01.01.01	K07.01.01.01.01	K07.01.01.01.01.01
Minimax	K07.01	K07.01.02	K07.01.02.01	K07.01.02.01.01	K07.01.02.01.01.01
Mandible	K07.02	K07.02.01	K07.02.01.01	K07.02.01.01.01	K07.02.01.01.01.01
Other sites	K07.03	K07.03.01	K07.03.01.01	K07.03.01.01.01	K07.03.01.01.01.01

GLOSSITIS				
Condition	Class	Code	Subclass	Subcode
Acute non-atrophic	K15.1	K15.1.01	K15.1.01.01	K15.1.01.01.01
Chronic	K15.2	K15.2.01	K15.2.01.01	K15.2.01.01.01
Atrophic	K15.3	K15.3.01	K15.3.01.01	K15.3.01.01.01

GINGIVITIS			HYPERPLASIA			
Condition	Class	Code	Class	Code	Subclass	Subcode
Non-purulent	K05.2	K05.2.01	K05.2	K05.2.01	K05.2.01.01	K05.2.01.01.01
Purulent	K05.3	K05.3.01	K05.2	K05.2.02	K05.2.02.01	K05.2.02.01.01

GINGIVOSTOMATITIS			HYPERTROPHY			
Condition	Class	Code	Class	Code	Subclass	Subcode
Non-purulent	K05.2	K05.2.02	K05.2	K05.2.03	K05.2.03.01	K05.2.03.01.01
Purulent	K05.3	K05.3.02	K05.2	K05.2.04	K05.2.04.01	K05.2.04.01.01

HEMANGIOMA			HYPOPLASIA			
Condition	Class	Code	Class	Code	Subclass	Subcode
Non-odontogenic	K12.01	K12.01.01	K08.0	K08.0.01	K08.0.01.01	K08.0.01.01.01
Odontogenic	K12.02	K12.02.01	K08.0	K08.0.02	K08.0.02.01	K08.0.02.01.01

HERPES SIMPLEX			IMPACTION, TOOTH			
Condition	Class	Code	Class	Code	Subclass	Subcode
Primary	K07.4	K07.4.01	K07.4	K07.4.01	K07.4.01.01	K07.4.01.01.01
Secondary	K07.4	K07.4.02	K07.4	K07.4.02	K07.4.02.01	K07.4.02.01.01

LEUKOPLAKIA				
Condition	Class	Code	Subclass	Subcode
Leukoplakia	K07.1	K07.1.01	K07.1.01.01	K07.1.01.01.01

LOSS OF TEETH					
Condition	Class	Code	Subclass	Subcode	Subdescription
Complete	K08.0	K08.0.01	K08.0.01.01	K08.0.01.01.01	K08.0.01.01.01.01
Partial	K08.0	K08.0.02	K08.0.02.01	K08.0.02.01.01	K08.0.02.01.01.01

Fig. 6



**MUCOCYCLE**

Special center	None	Subsidiary gland	None, accessory
0110	011	014	011

**MUCOSITIS**

Site	Benign	Malignant, primary	Malignant, second	None	None	None
0120	01201, 01202	01203	01204, 01205	01206	01207	01208

**NEOPLASM**

Site	Benign	Malignant, primary	Malignant, second	None	None	None
0130	01301	0132	01303			

**Connective tissue**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0140	01401	01402	01403			

**Cartilage**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0150	01501	01502	01503			

**Lig**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0160	01601	01602	01603			

**Ligament**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0170	01701	01702	01703			

**Mandible (ear joint)**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0180	01801	01802	01803			

**Middle (ear joint)**

Site	Benign	Malignant, primary	Malignant, secondary	None	None	None
0190	01901	01902	01903			

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Fig. 7

**NEOPLASM (CONTINUED)**

	FIG. 107	FIG. 108	FIG. 109	FIG. 110	FIG. 111	FIG. 112	FIG. 113
<b>Neoplasm</b>							
to use	---	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Category: glandular</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm
<b>Neoplasm</b>							
Neoplasm	0142	0142	0142	0142	0142	0142	0142
to use	0142	0142	0142	0142	0142	0142	0142
Neoplasm primary	0142	0142	0142	0142	0142	0142	0142
Neoplasm secondary	0142	0142	0142	0142	0142	0142	0142
	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm	Neoplasm

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Fig. 8

ODONTOCLASIA		PERIODONTITIS (JUVENILE & UNSPECIFIED)							
		Grade	Aggressive	Local	Apical score	General	General	Periapical	General
Generalized		K07.72	K07.73	---	---	K07.75	K07.77	K07.79	K07.78
Localized		K07.71	K07.74	---	---	K07.74	K07.76	K07.78	K07.78
Unspecified		K07.70	K07.76	K07.74	K07.75	K07.76	K07.76	K07.76	K07.76

PERIODONTIC ALTR PATH ASSOC W/ PREV ENDO DONTIC TREAT				RECESSION, GINGIVAL			
		Grade	Unspecified	Localized	Localized	Localized	Localized
Localized		K07.52	K07.53	K07.54	K07.55	K07.56	K07.57
Unspecified		K07.51	K07.51	K07.51	K07.51	K07.51	K07.51

RESTORATION, TOOTH, UNSATISFACTORY						
		Allege vs rest dental	Localized gingival	Non-restorative	Post-operative of	Unspecified
		Localized	Unspecified	Unspecified	Unspecified	Unspecified
Localized		K02.21	K02.21	K02.21	K02.21	K02.21
Unspecified		K02.21	K02.21	K02.21	K02.21	K02.21

SIALOADENITIS, ANY GLAND				CALCULITHIASIS			
		Grade	Grade unspecified	General	Unspecified		
		K11.21	K11.22	K11.23	K11.24		

SIGNS AND SYMPTOMS							
		Redness	Swelling	Unspecified			
Redness		K06.2	K06.3	K06.4			
Swelling		K06.5	K06.6	K06.7	K06.8		
Unspecified		K06.9	K06.10	K06.11	K06.12		
Discoloration		K06.13	K06.14	K06.15	K06.16		
Discoloration		K06.17	K06.18	K06.19	K06.20		
Discoloration		K06.21	K06.22	K06.23	K06.24		
Discoloration		K06.25	K06.26	K06.27	K06.28		
Discoloration		K06.29	K06.30	K06.31	K06.32		
Discoloration		K06.33	K06.34	K06.35	K06.36		
Discoloration		K06.37	K06.38	K06.39	K06.40		
Discoloration		K06.41	K06.42	K06.43	K06.44		
Discoloration		K06.45	K06.46	K06.47	K06.48		
Discoloration		K06.49	K06.50	K06.51	K06.52		
Discoloration		K06.53	K06.54	K06.55	K06.56		
Discoloration		K06.57	K06.58	K06.59	K06.60		
Discoloration		K06.61	K06.62	K06.63	K06.64		
Discoloration		K06.65	K06.66	K06.67	K06.68		
Discoloration		K06.69	K06.70	K06.71	K06.72		
Discoloration		K06.73	K06.74	K06.75	K06.76		
Discoloration		K06.77	K06.78	K06.79	K06.80		
Discoloration		K06.81	K06.82	K06.83	K06.84		
Discoloration		K06.85	K06.86	K06.87	K06.88		
Discoloration		K06.89	K06.90	K06.91	K06.92		
Discoloration		K06.93	K06.94	K06.95	K06.96		
Discoloration		K06.97	K06.98	K06.99	K07.00		

STOMATITIS			
		Generalized	Unspecified
Generalized		K05.2	K05.3
Unspecified		K05.4	K05.5

Fig. 9

