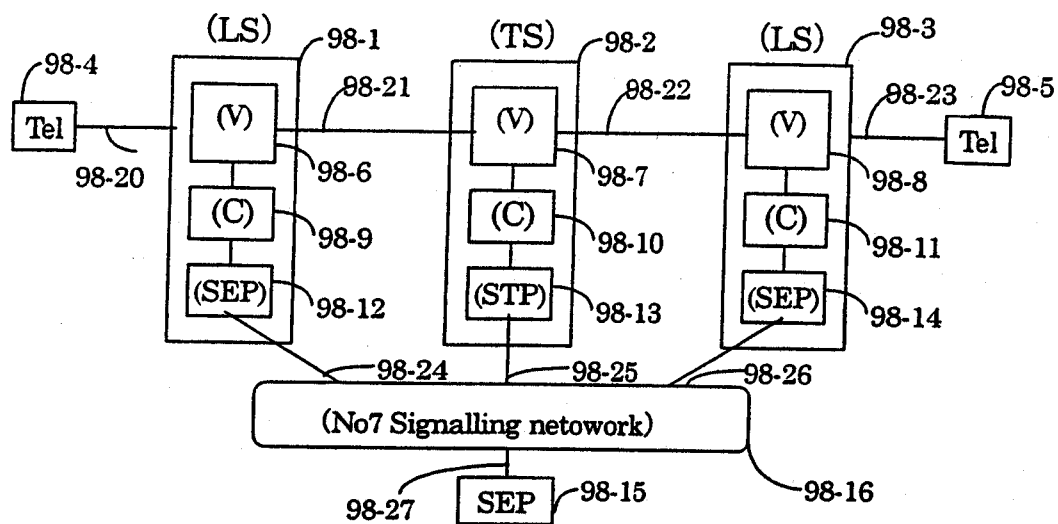
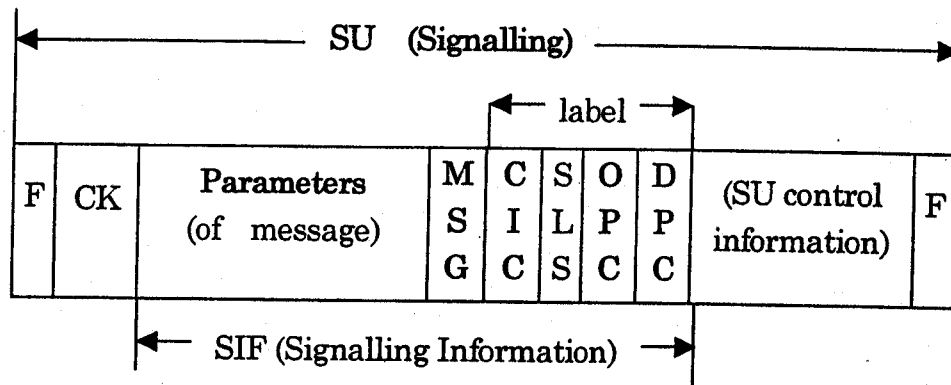


FIG.2



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FIG.3



MSG: message (IAM, ACM, CPG, ANM, REL, RLC, SUS, RES, CON, etc.)

OPC: origin point code DPC: destination point code

CIC: circuit identification code

SLS= Signalling Link Selection

F: flag (01111110) CK: check code

FIG.4

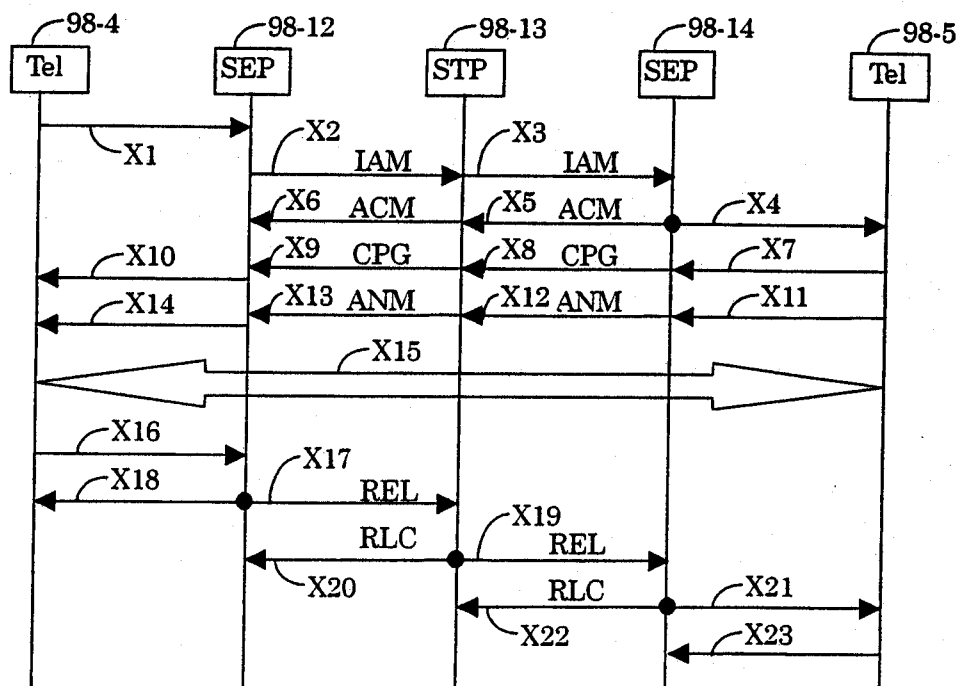


FIG.5

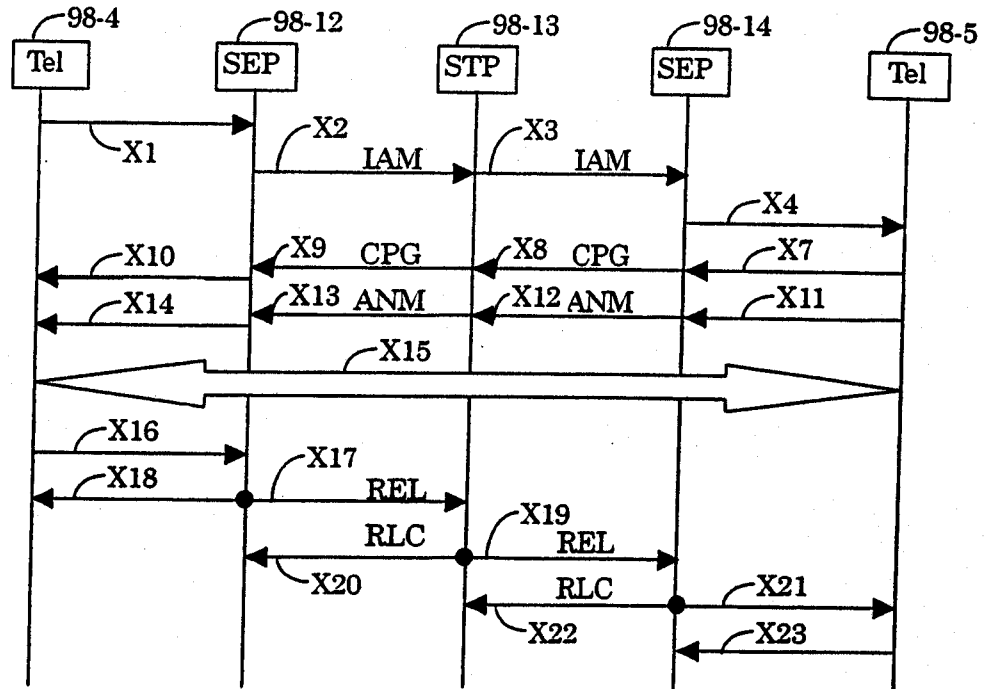


FIG.6

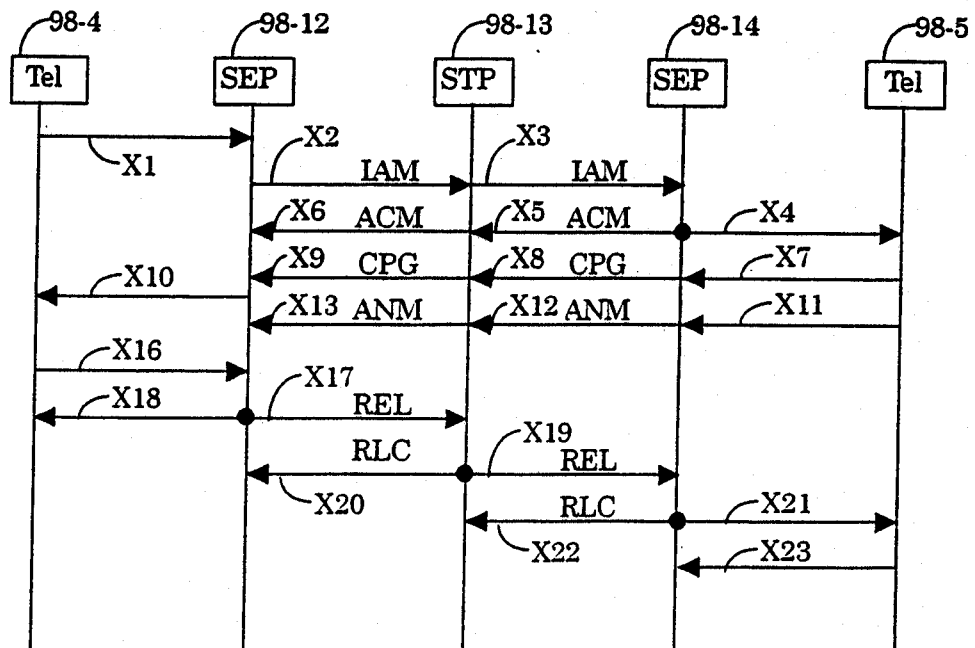
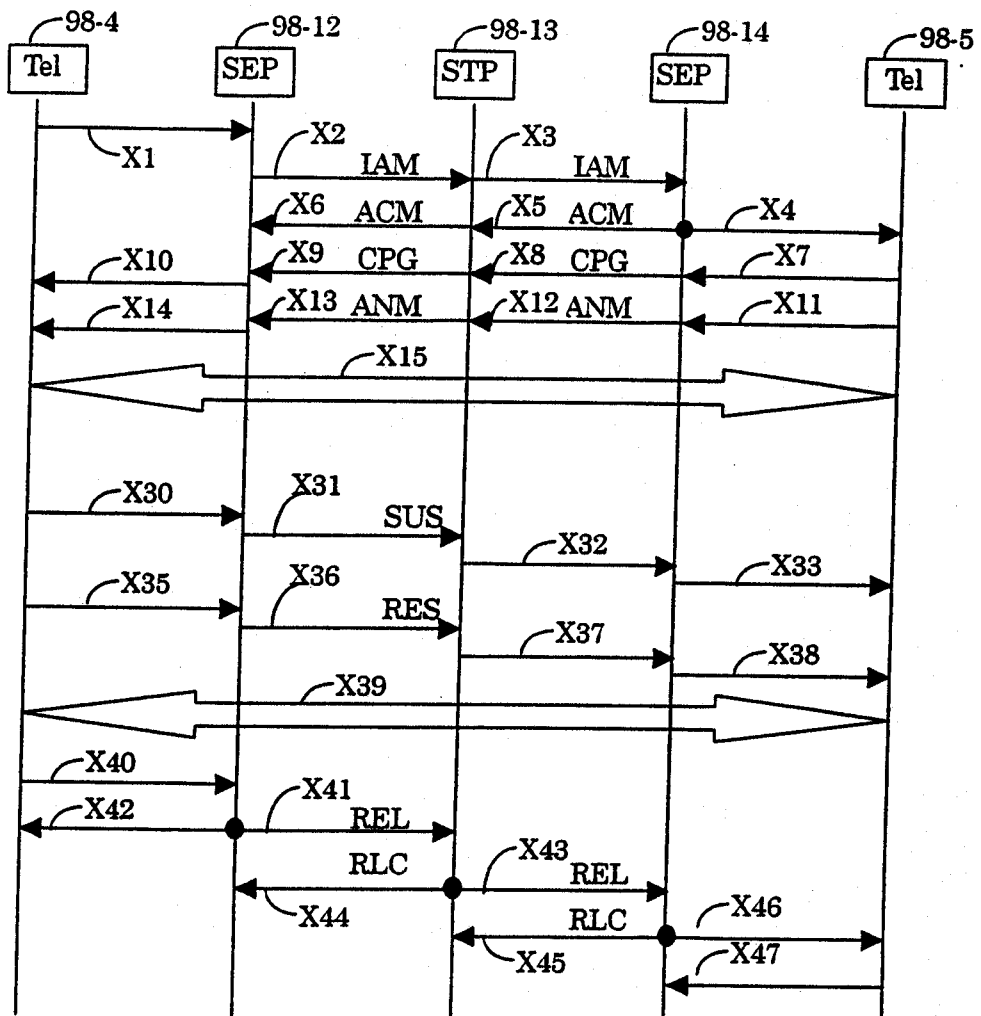


FIG. 7



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FIG.8

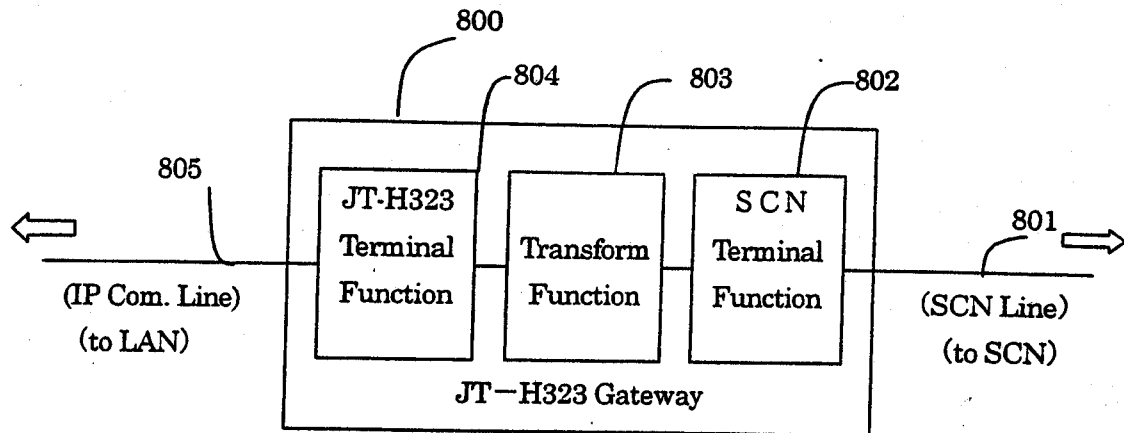


FIG.9

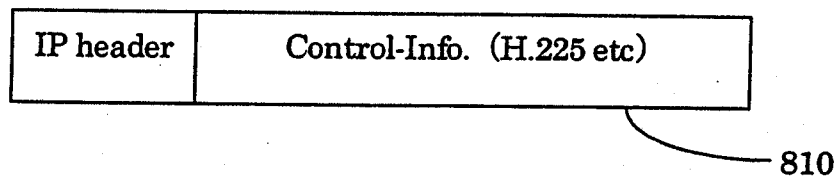


FIG.10

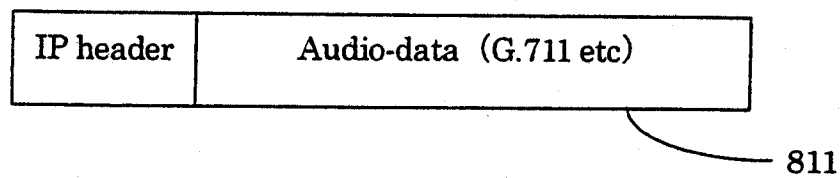
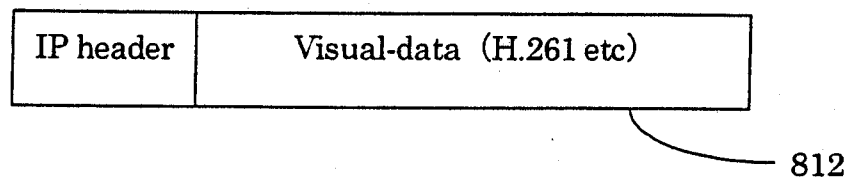
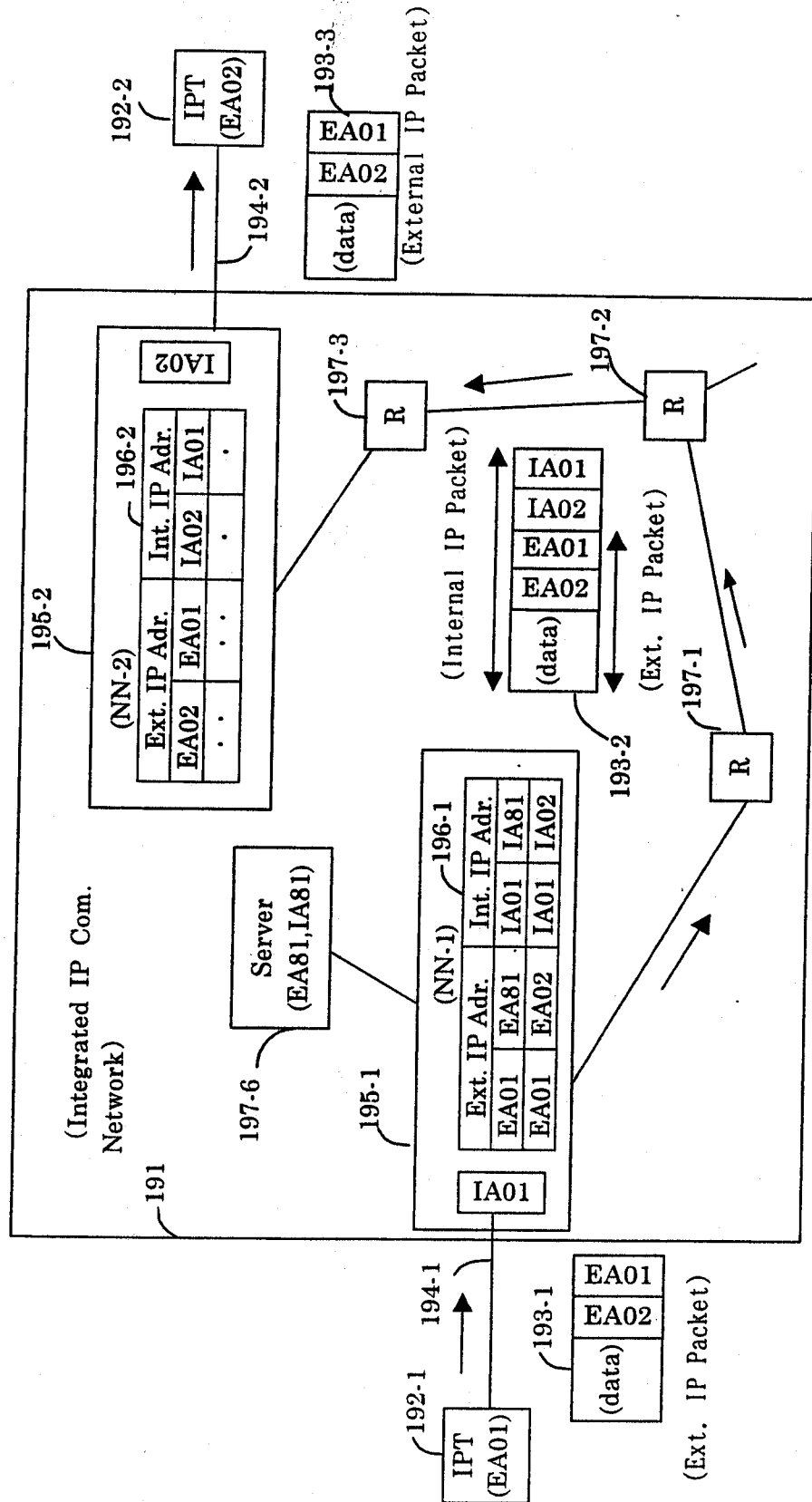


FIG.11



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FIG.12



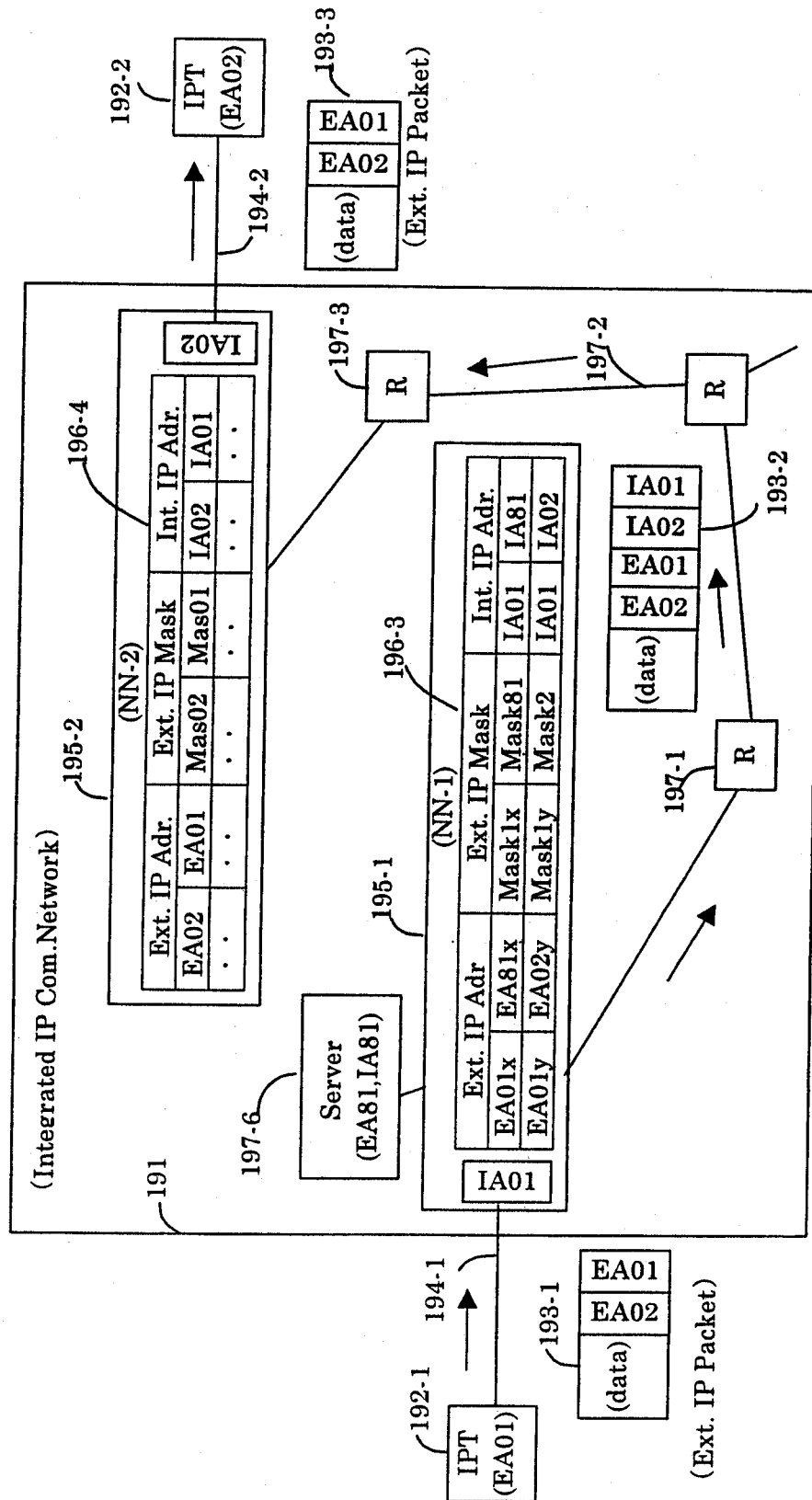


FIG. 13

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FIG.14

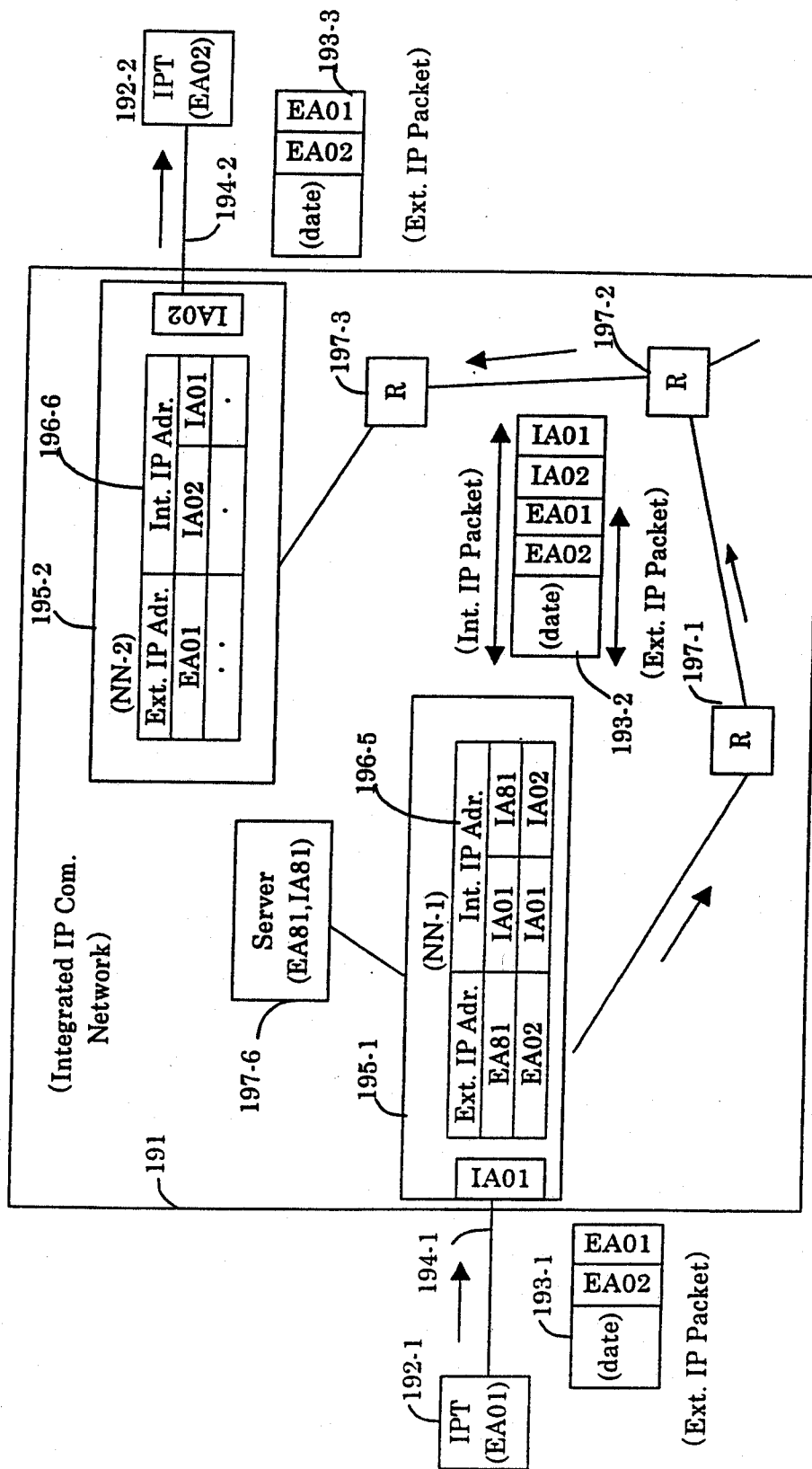


FIG.15

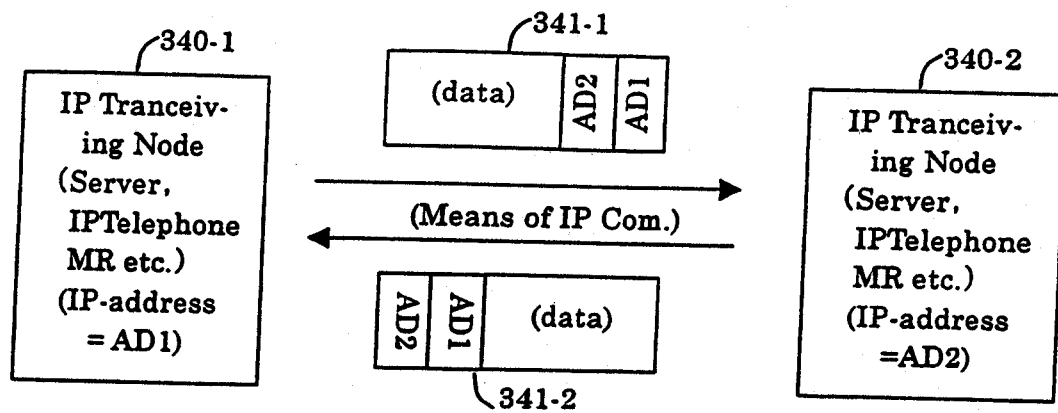


FIG. 16

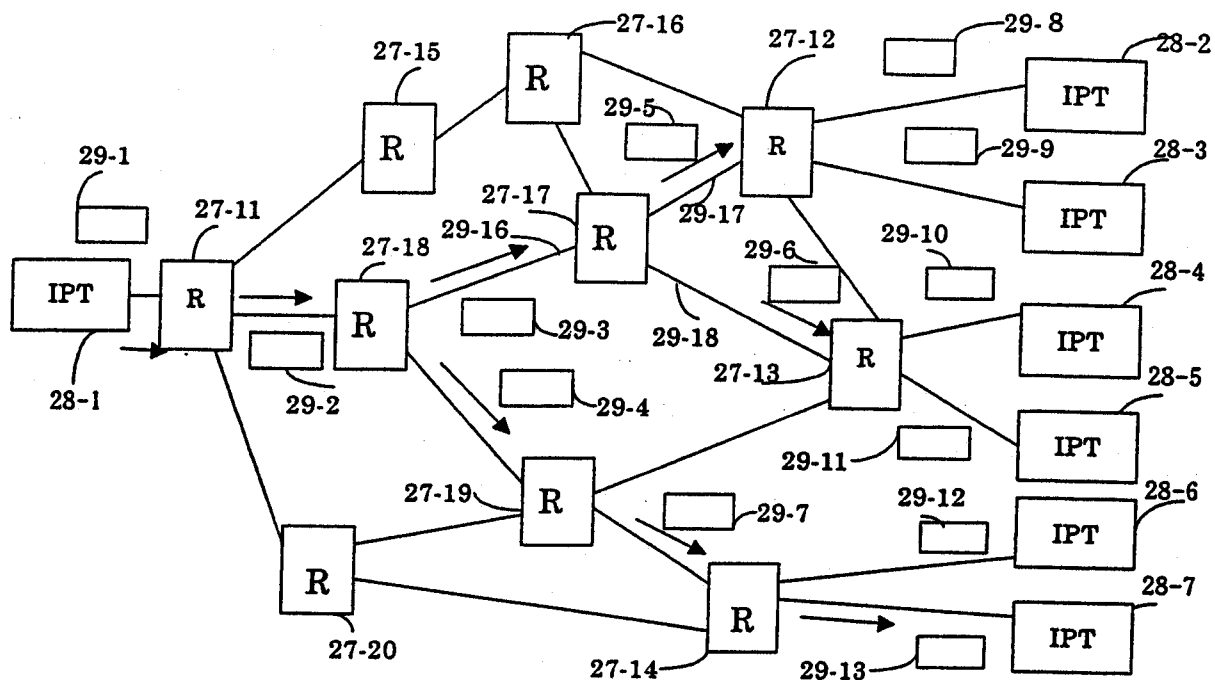
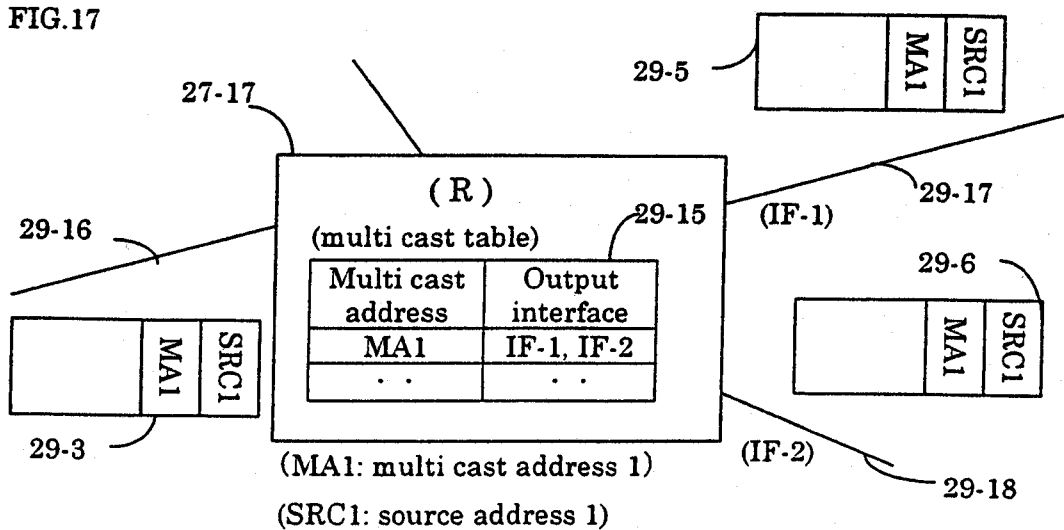


FIG. 17



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FIG.18

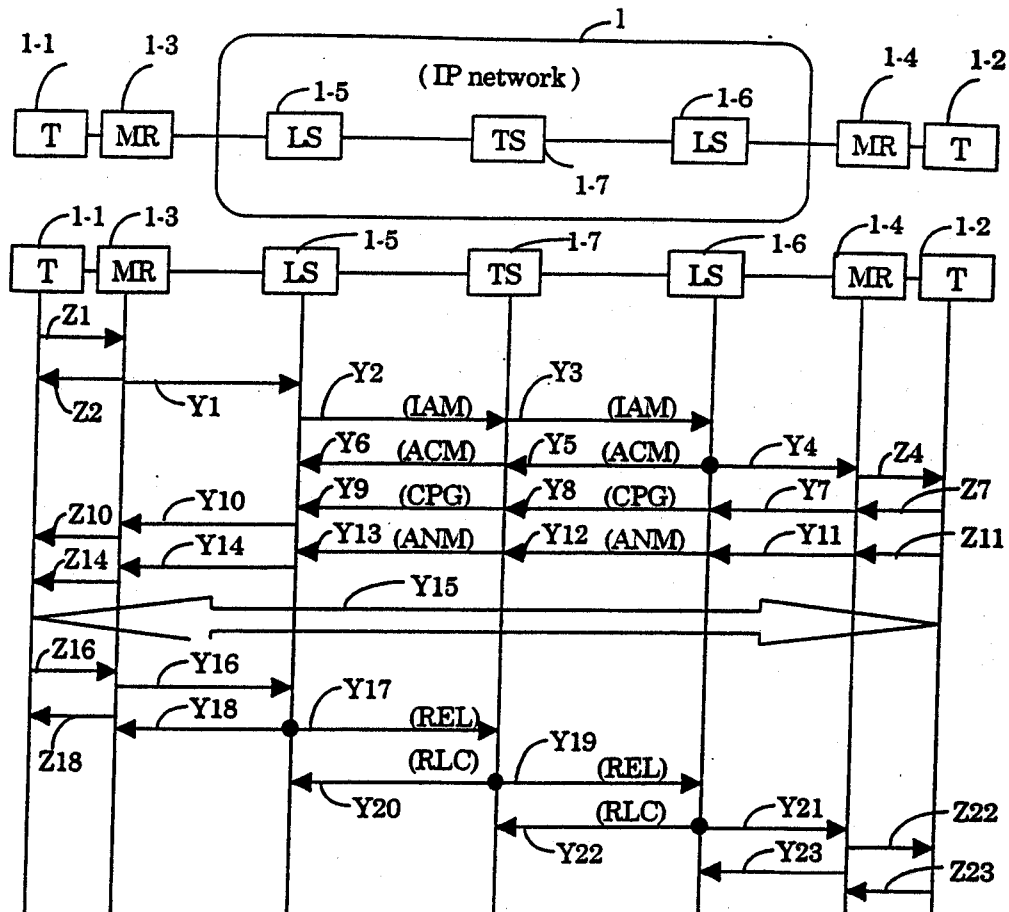


FIG.19

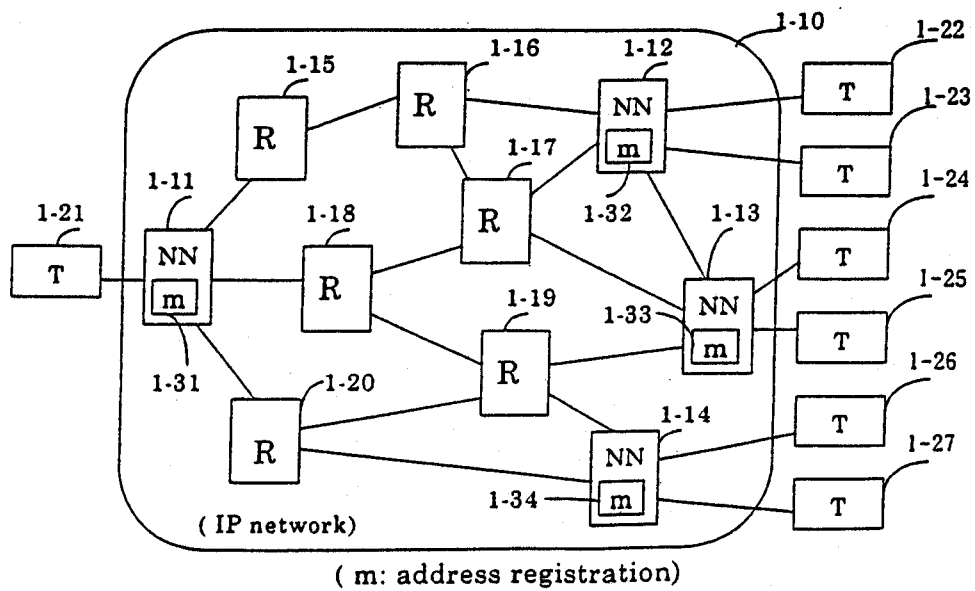


FIG. 20

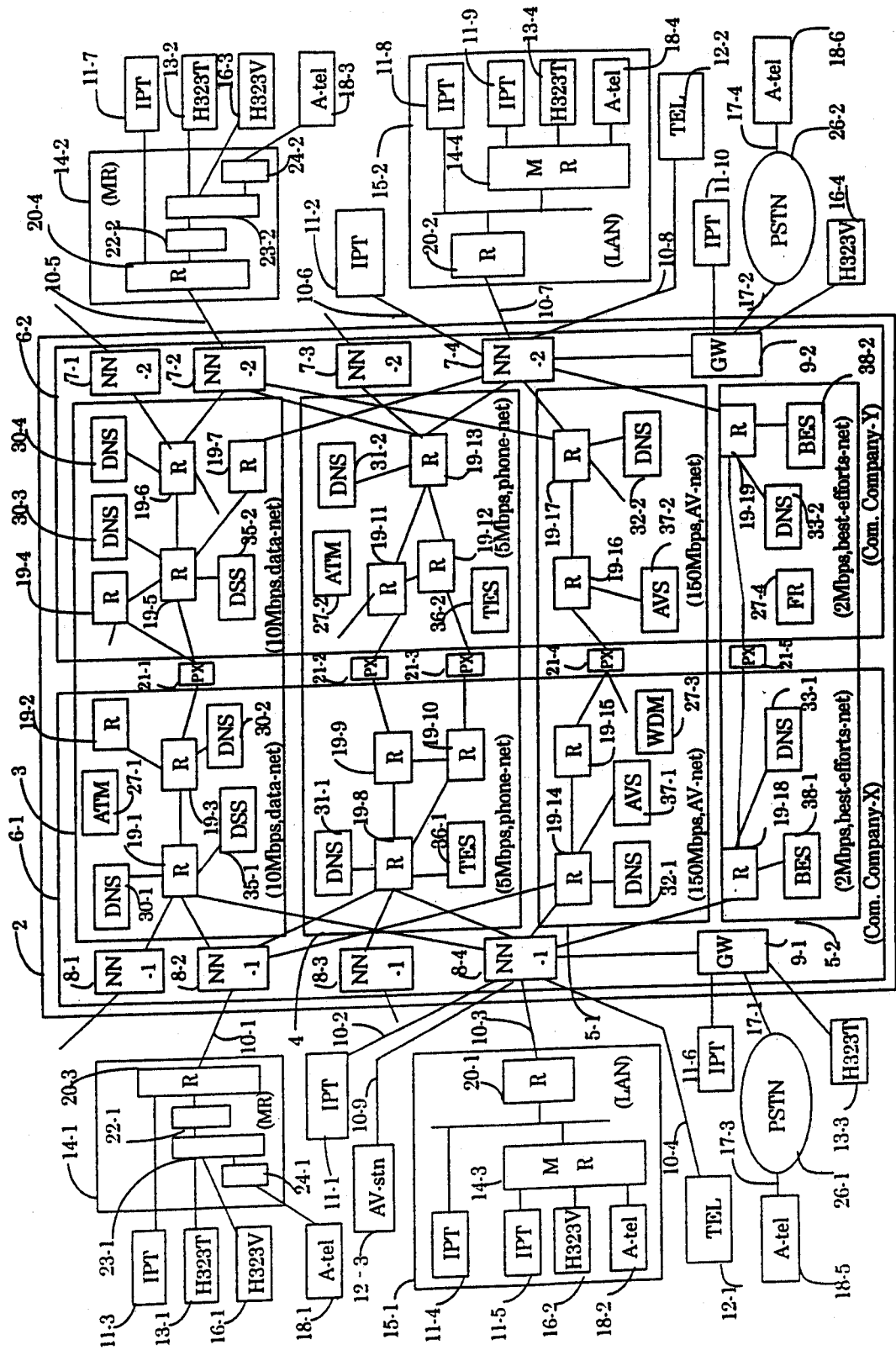


FIG.21

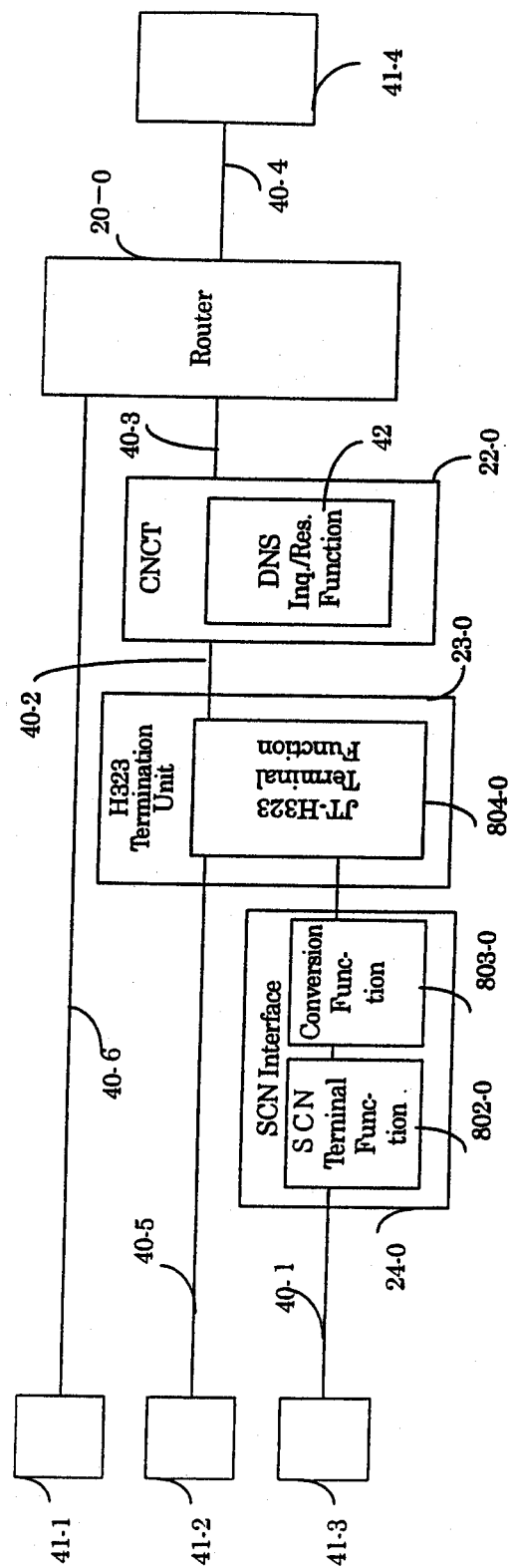
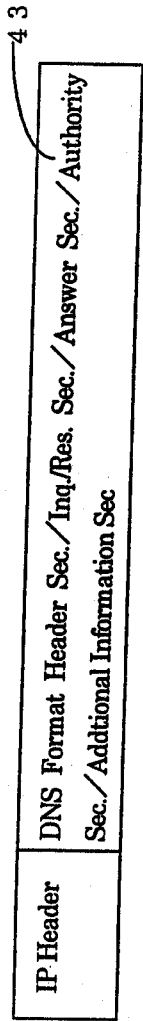
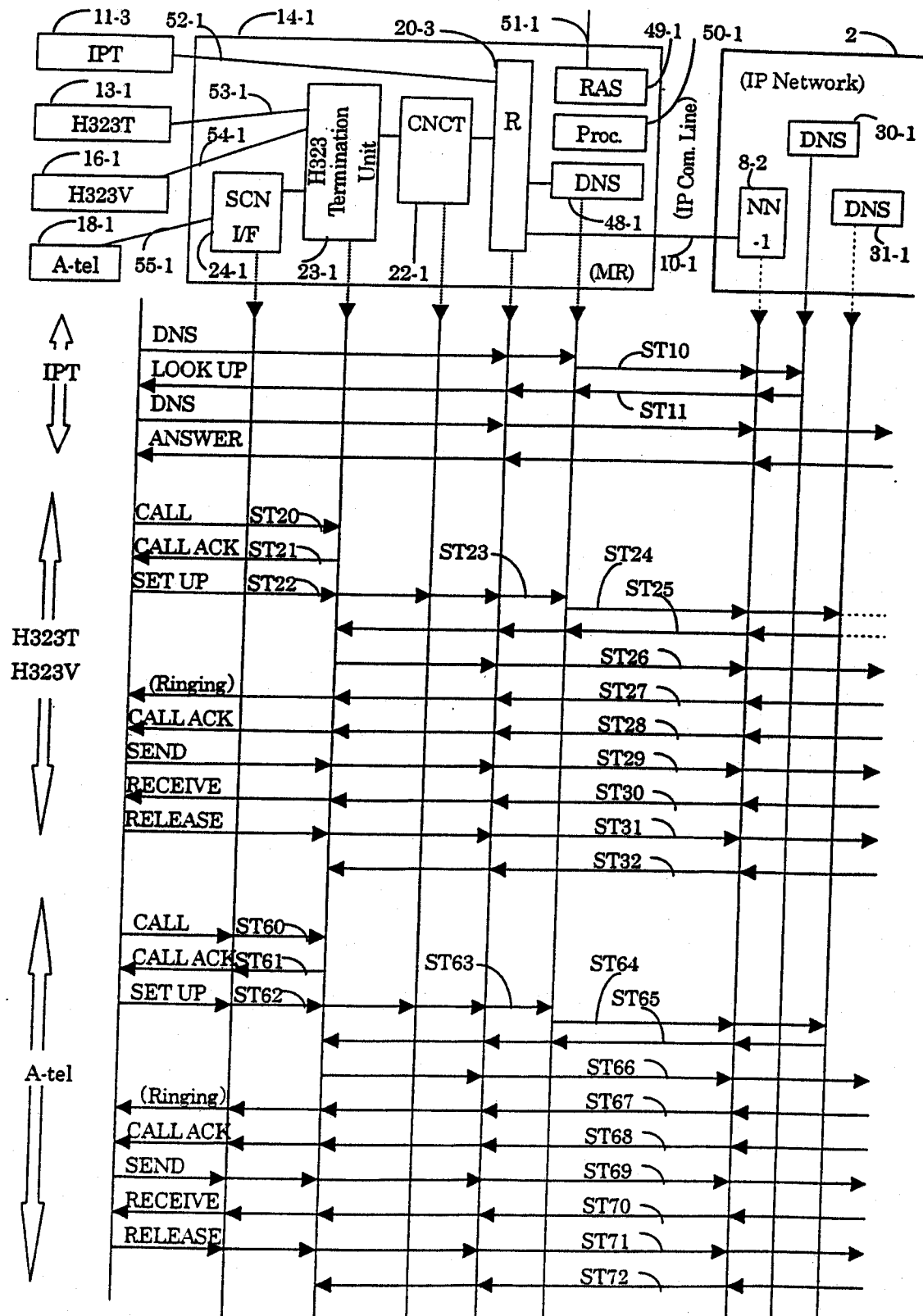


FIG.22



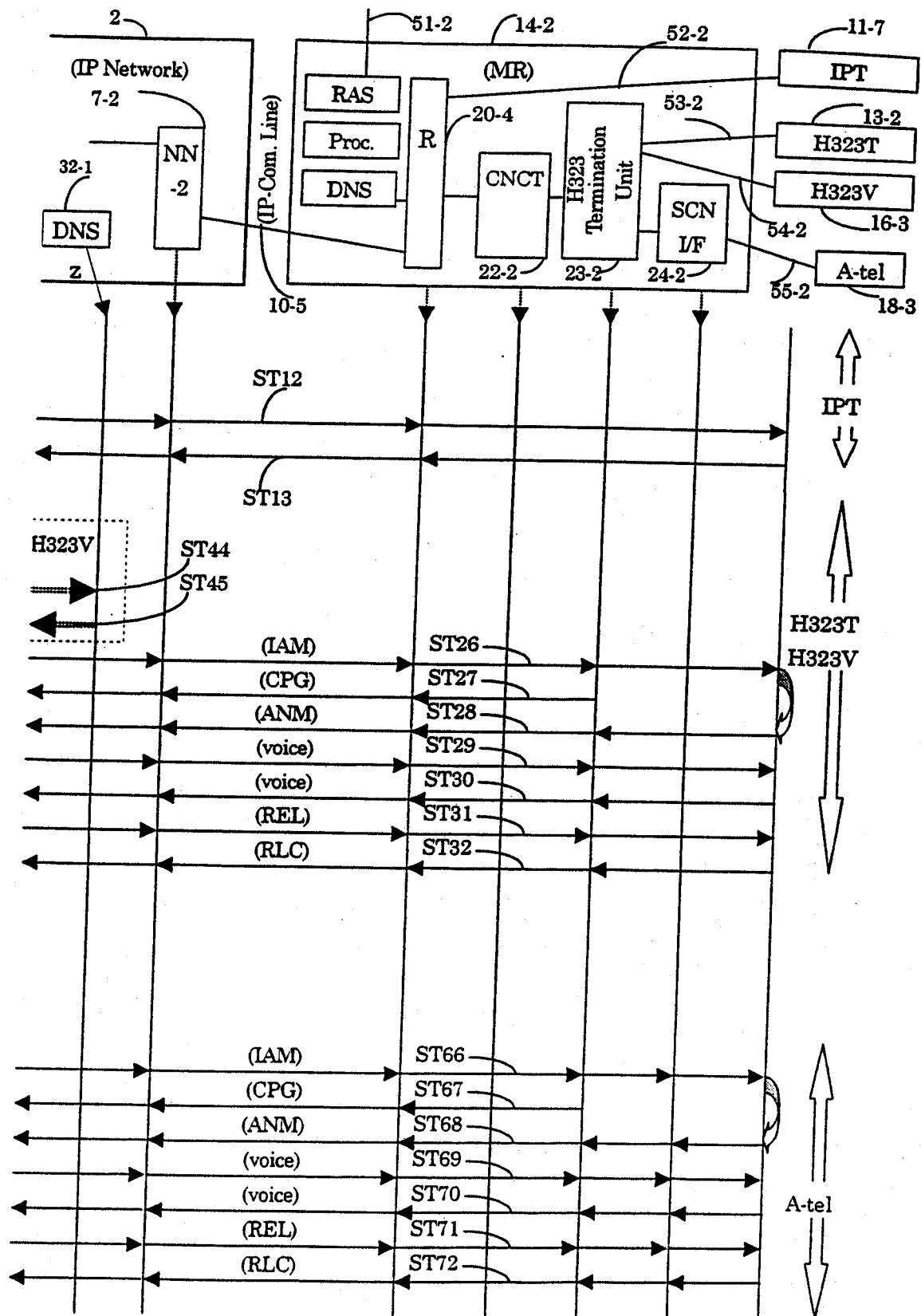
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FIG.23



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FIG. 24



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FIG.25

44-1

External IP Address	Communication Line Identification Symbol
A481	Line-10-1
A113	Line-10-1
A131	Line-10-1
A161	Line-10-1
A181	Line-10-1
..	..

FIG.26 45-1

A113	A481	IPT-11-7 name
------	------	---------------

FIG.27 45-2

A481	A113	A117
------	------	------

FIG.28 45-3

A113	A117	Data (A113 to A117)
------	------	---------------------

FIG.29 45-4

A117	A113	Data (A117 to A113)
------	------	---------------------

FIG.30 45-5

A113	A301	IPT-11-7 name
------	------	---------------

FIG.31 45-6

A301	A113	A117
------	------	------

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FIG.32

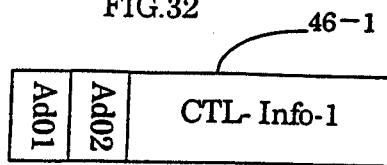


FIG.33

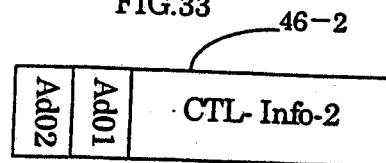


FIG.34

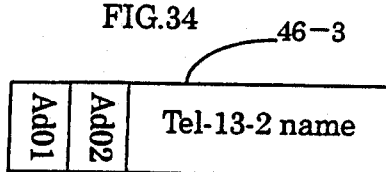


FIG.35

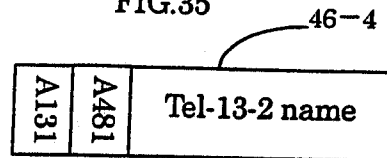


FIG.36

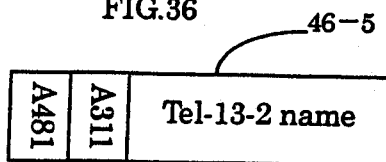


FIG.37

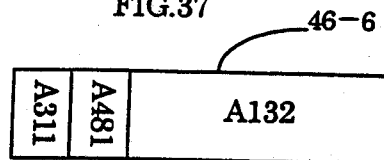


FIG.38

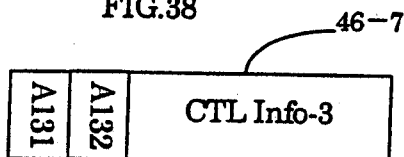


FIG.39

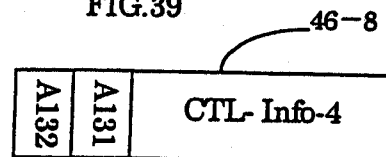


FIG.40

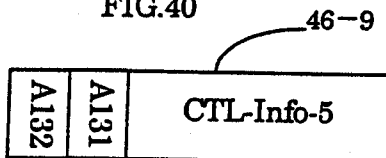


FIG.41

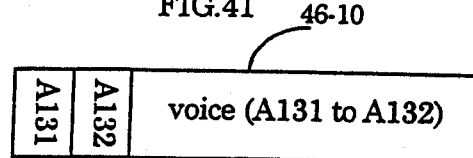


FIG.42

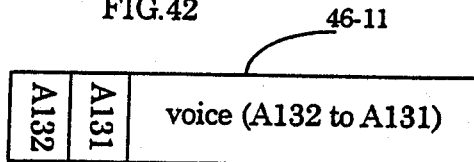


FIG.43

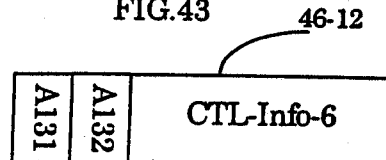


FIG.44

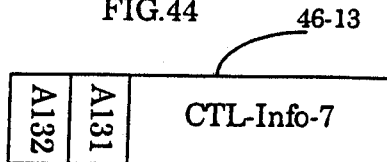


FIG.45

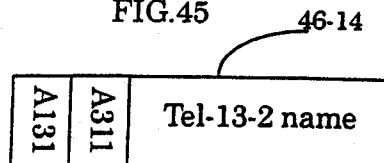
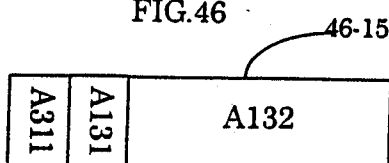


FIG.46



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FIG.47

100-1

Line Identifier	Phone No. (Host Name)	Terminal IP Address	Kind of Terminal	Speed	Kind of Line
5 3 - 1	81-3-1234-5679	32.3.53.1	H323T	64Kbps	ISDN
5 4 - 1	81-3-1200-2002	32.3.54.1	H323V	1.5Mbps	
5 5 - 1	81-47-325-3887	20.0.55.1	A-tel	64Kbps	ISDN
..	..	..			..

FIG.48

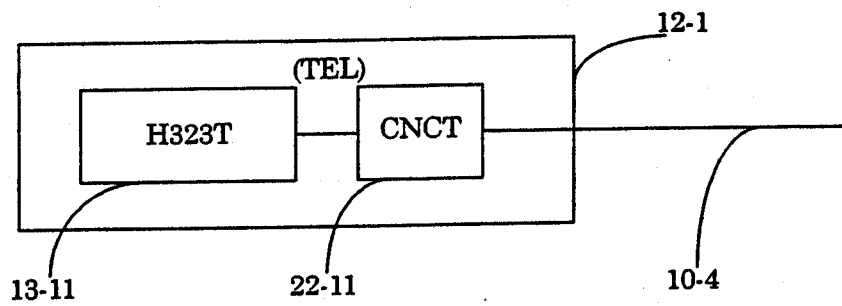
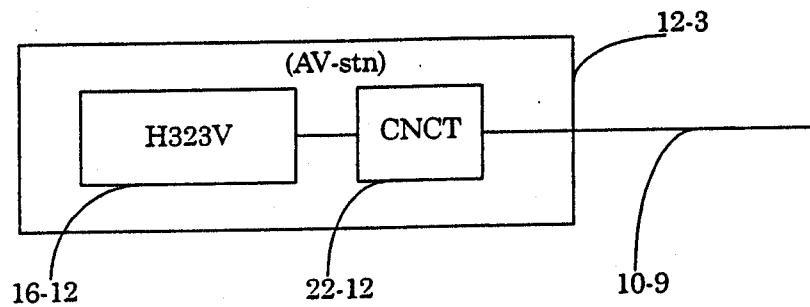


FIG.49



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FIG.50 47-1

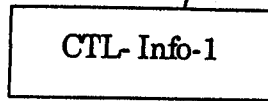


FIG.51 47-2

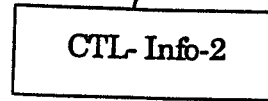


FIG.52 47-3

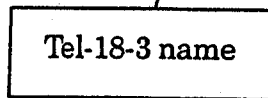


FIG.53 47-4

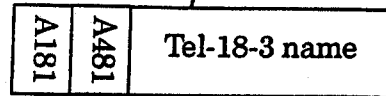


FIG.54 47-5

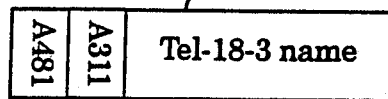


FIG.55 47-6

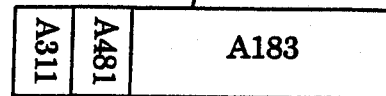


FIG.56 47-7

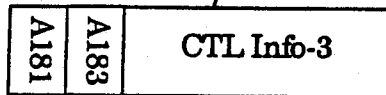


FIG.57 47-8

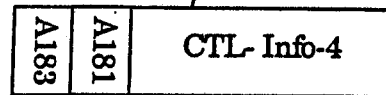


FIG.58 47-9

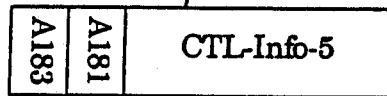


FIG.59 47-10

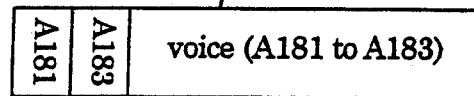


FIG.60 47-11

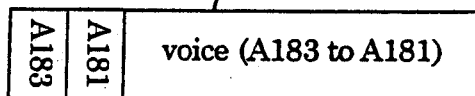


FIG.61 47-12

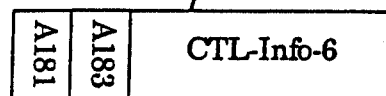


FIG.62 47-13

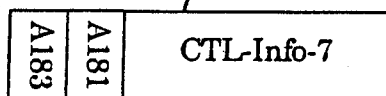


FIG.63 47-14

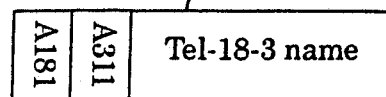
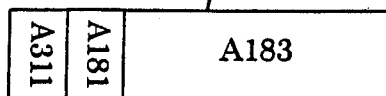


FIG.64 47-15



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FIG.65

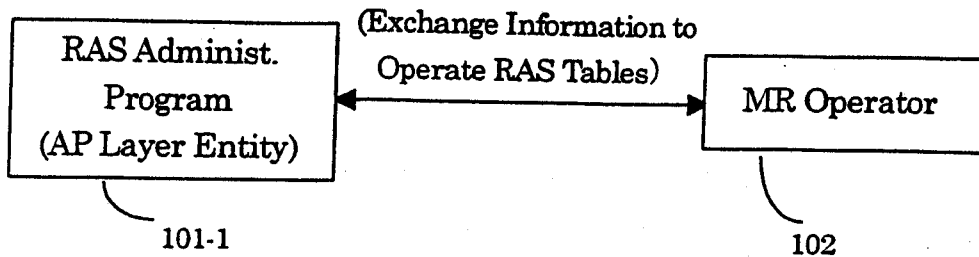


FIG.66

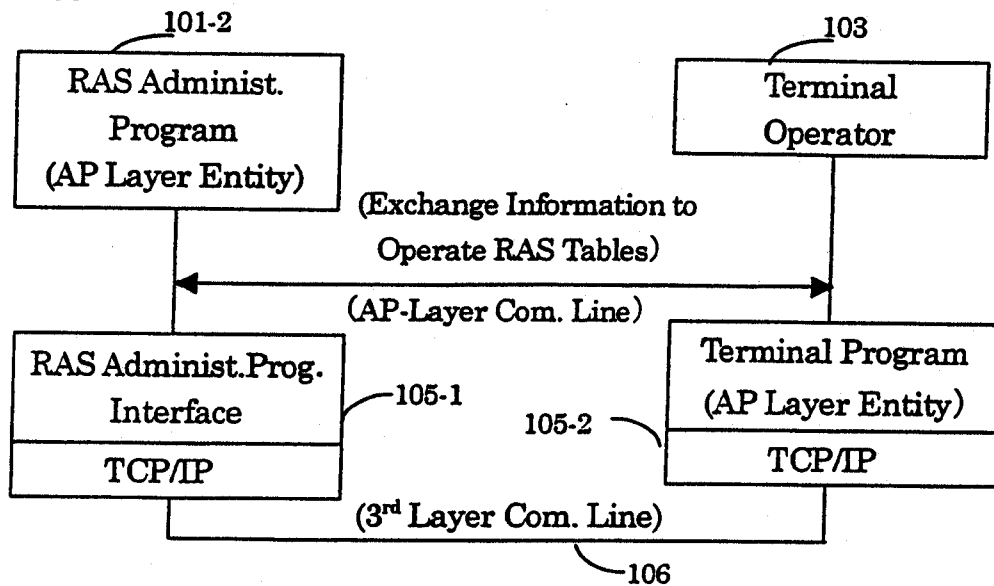
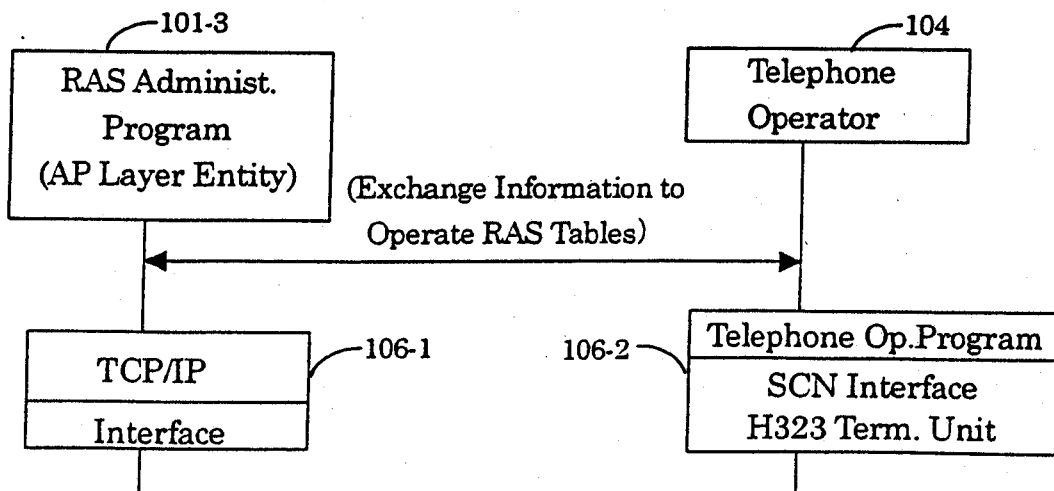
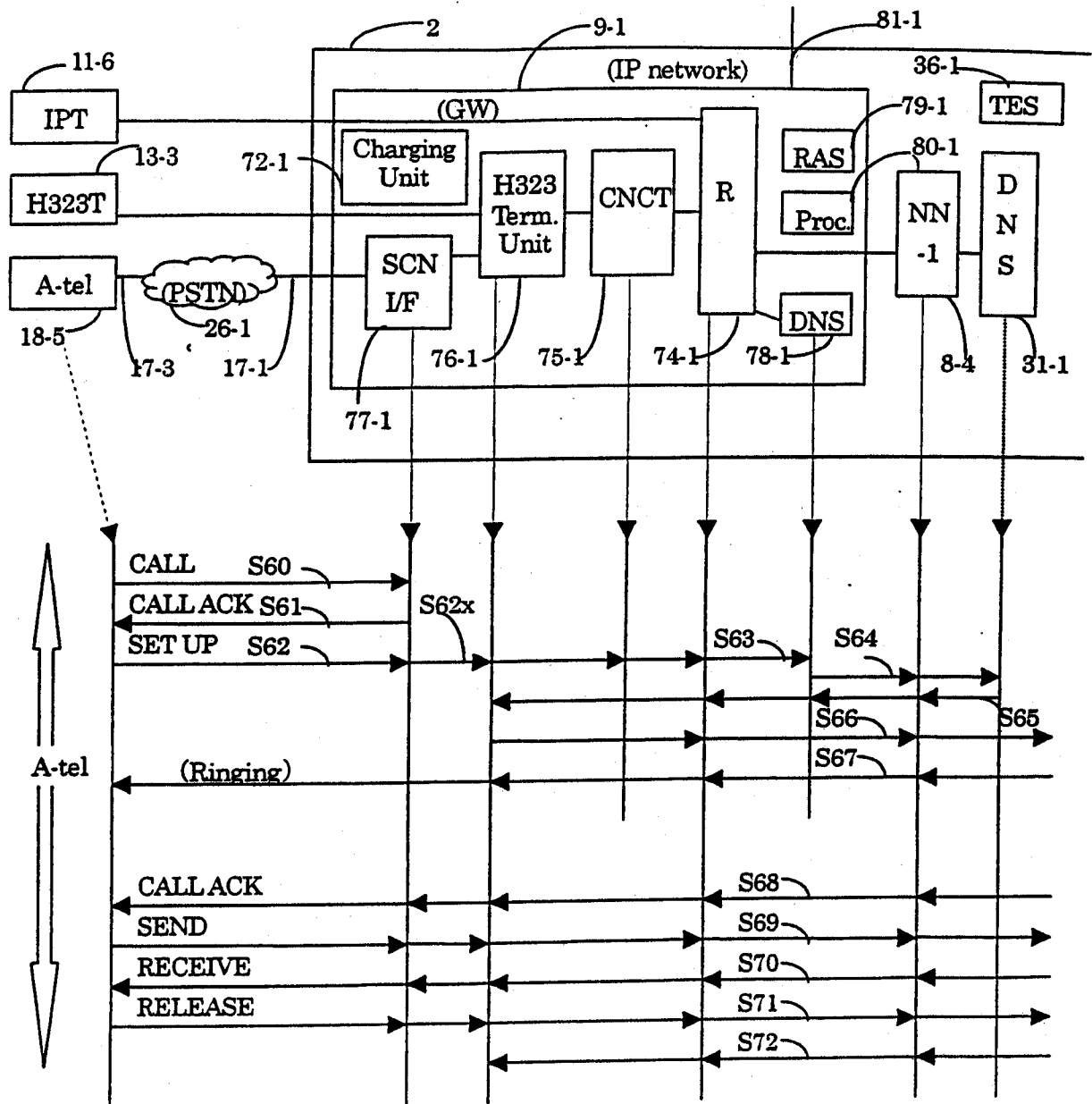


FIG.67



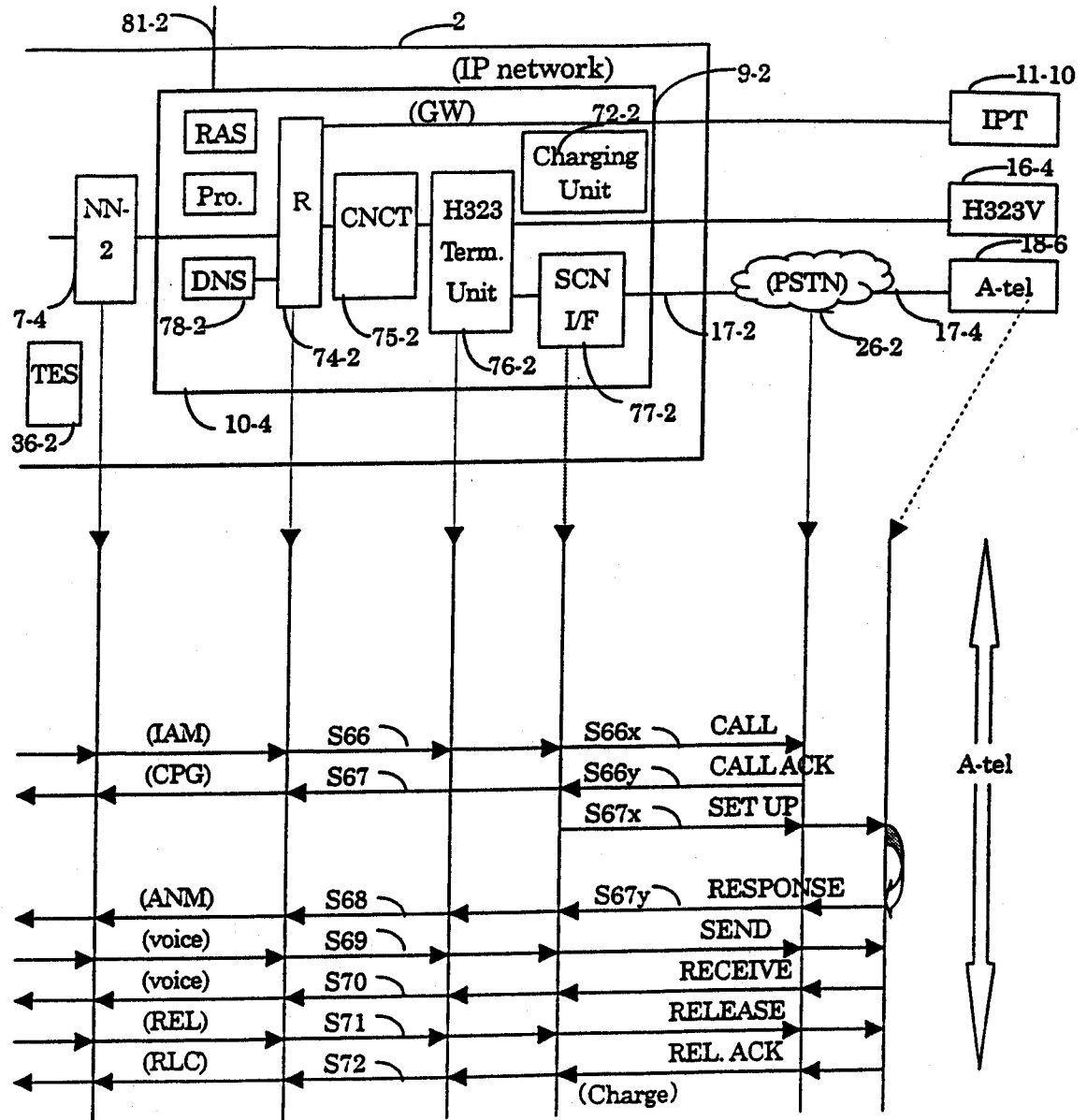
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FIG.68



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FIG.69



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FIG. 70 48-1

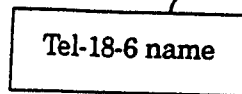


FIG. 71 48-2

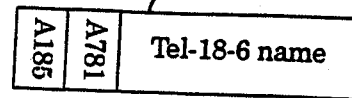


FIG. 72 48-3

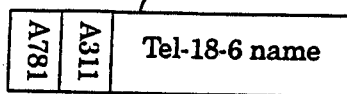


FIG. 73 48-4

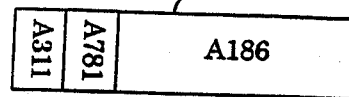


FIG. 74 48-5

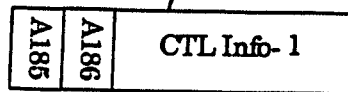


FIG. 75 48-6

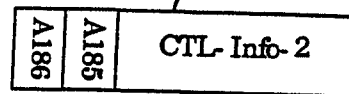


FIG. 76 48-7

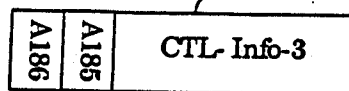


FIG. 77 48-8

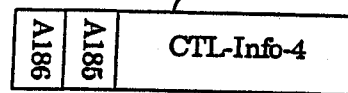


FIG. 78 48-9

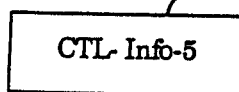


Fig. 79 48-10

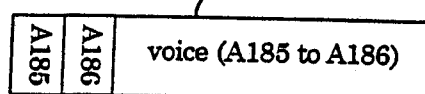


FIG. 80 48-11

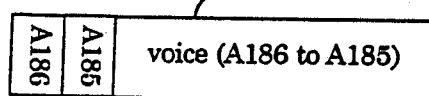


FIG. 81 48-12

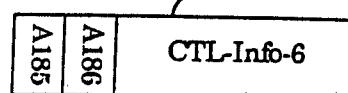


FIG. 82 48-13

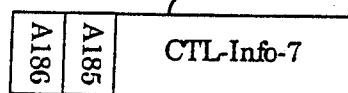


FIG. 83 48-14

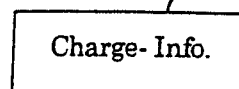


FIG. 84 48-15

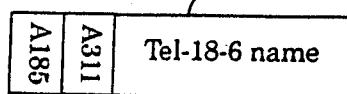
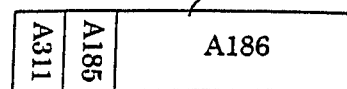


FIG. 85 48-16



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FIG.86

44-2

External IP Address	Com. Line Identification Symbol
A781	Line-17-1
A116	Line-17-1
A133	Line-17-1
A185	Line-17-1
. .	. .

FIG.87

100-2

Line Identifier	Telephone No. (Host Name)	Terminal IP Address	Kind of Terminal	Speed	Kind of Com. Line
17-1	81-3-9876-5432	100.101.102.103	A-tel	64kbps	ISDN
..	81-3-9876-5431	110.111.112.113	..	..	ISDN

FIG.88

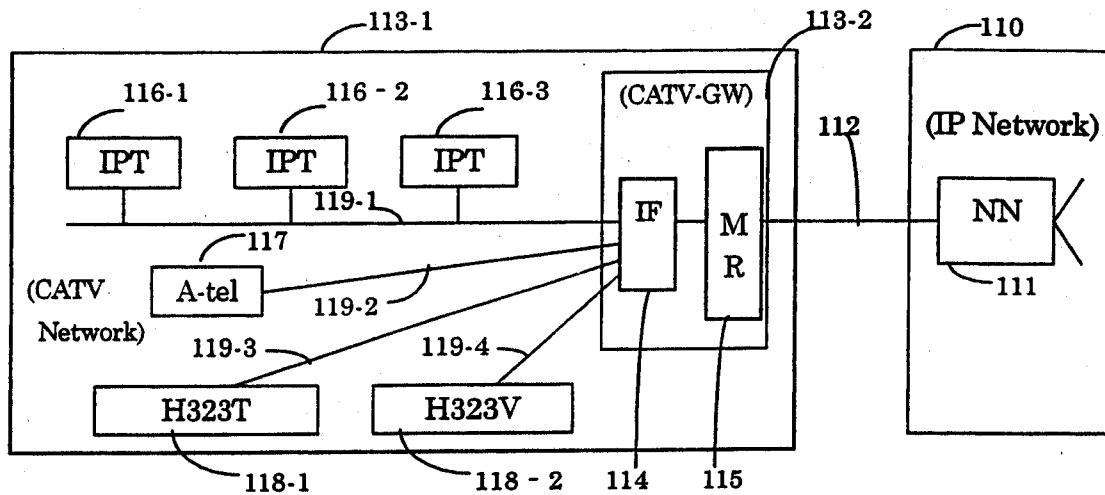
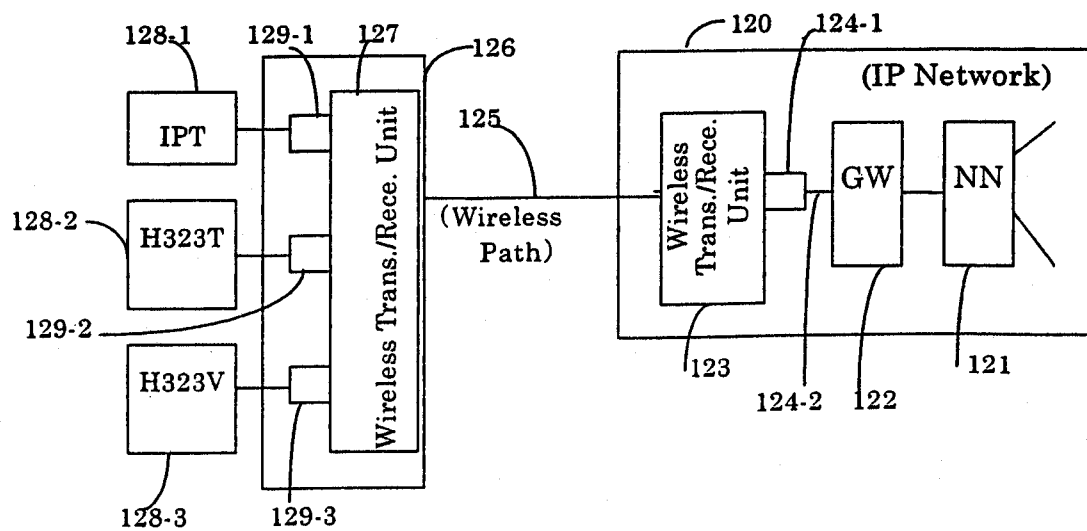
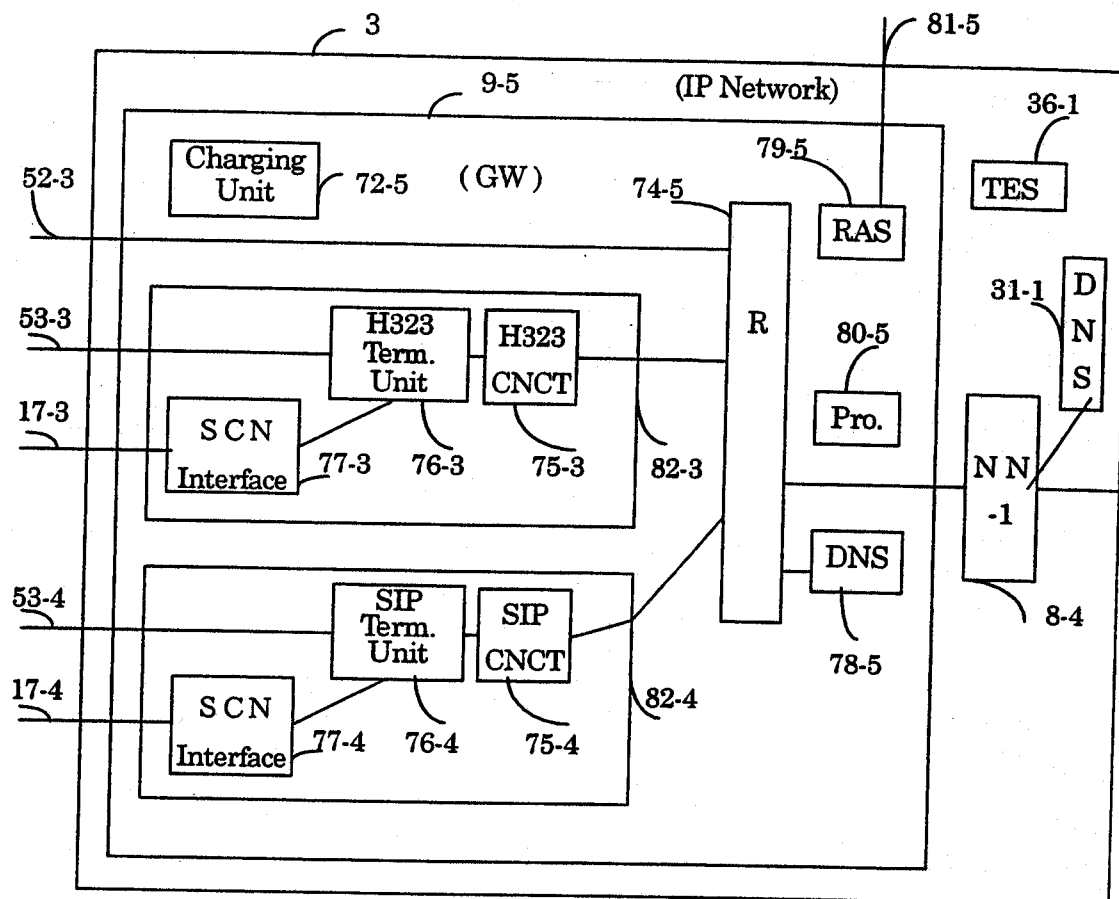


FIG.89



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FIG.90



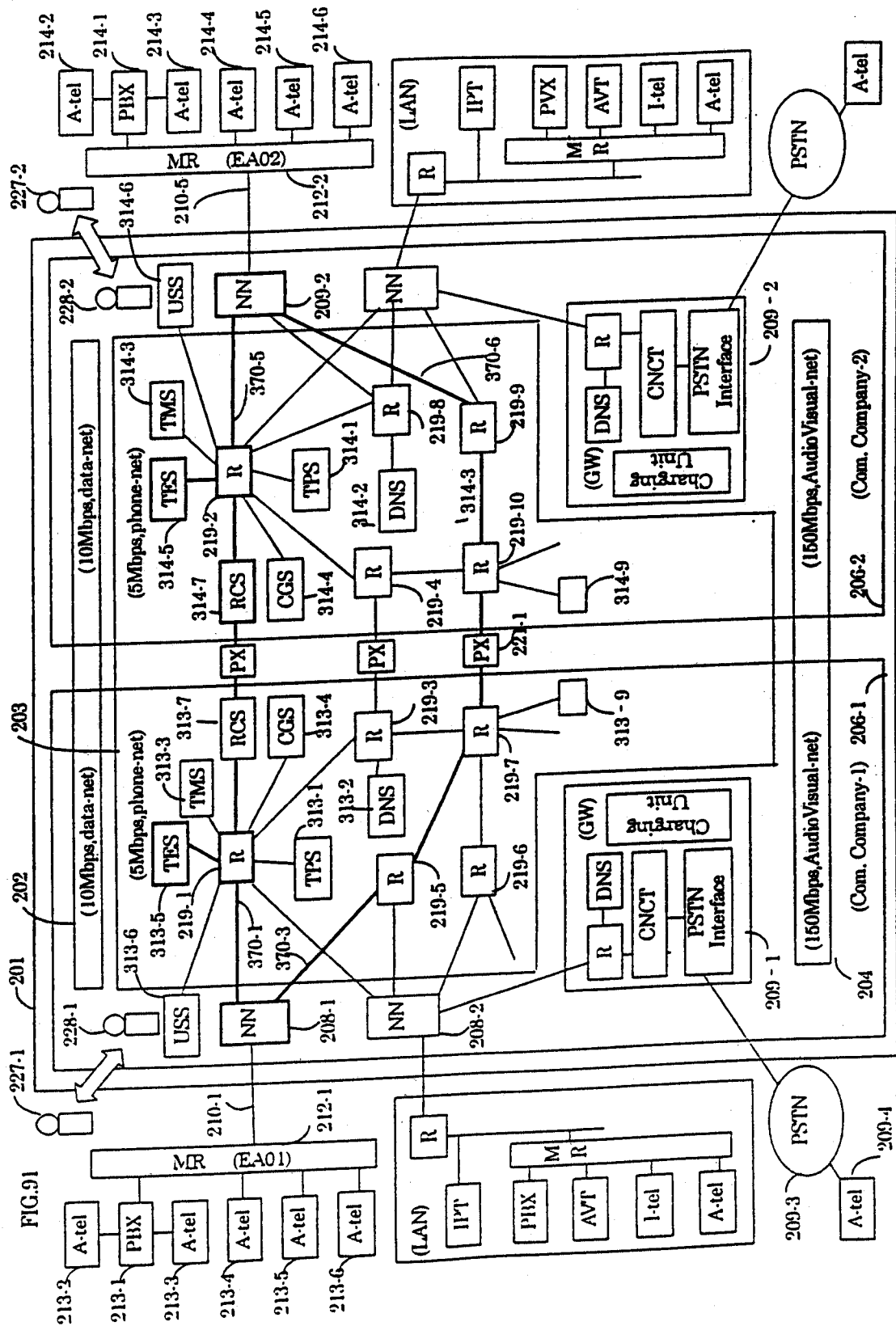
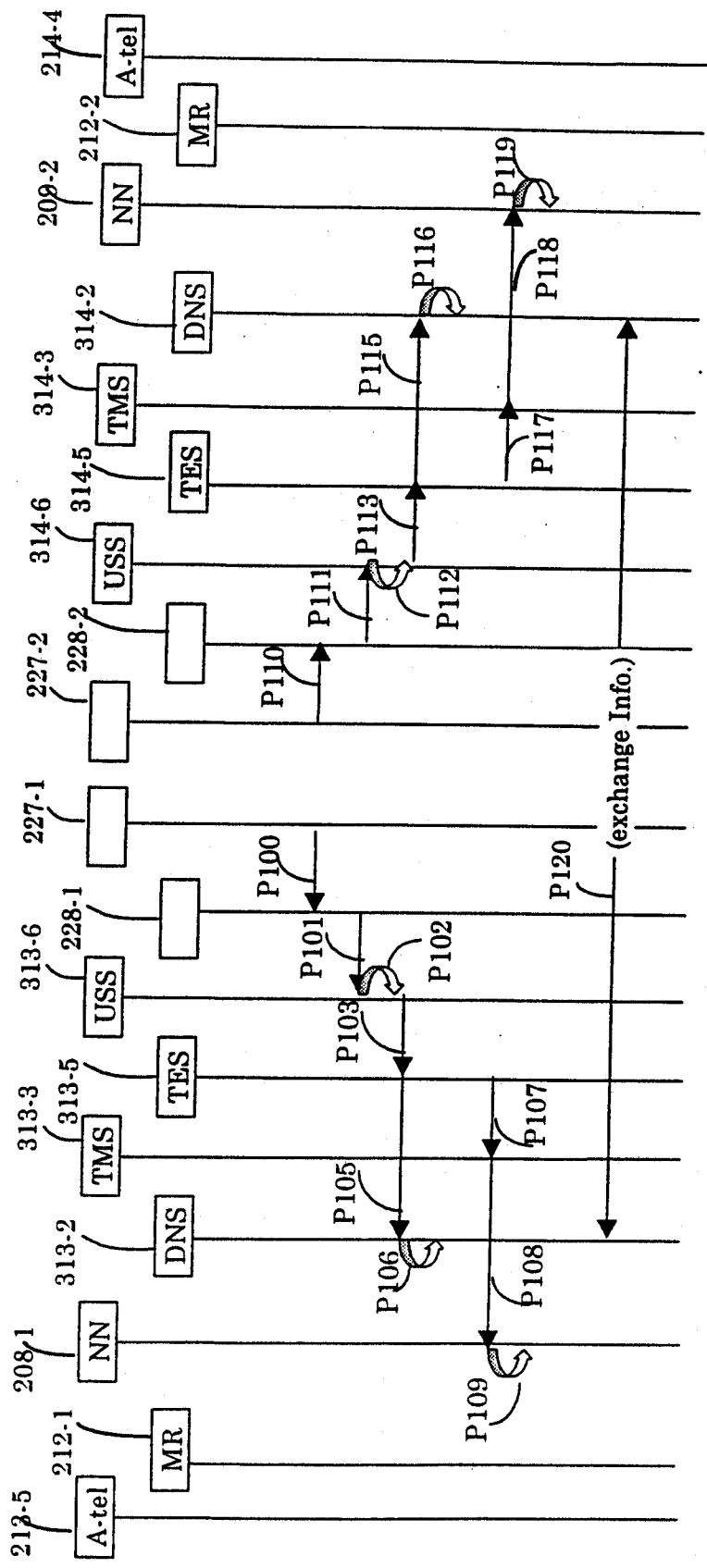


FIG.92



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FIG.93

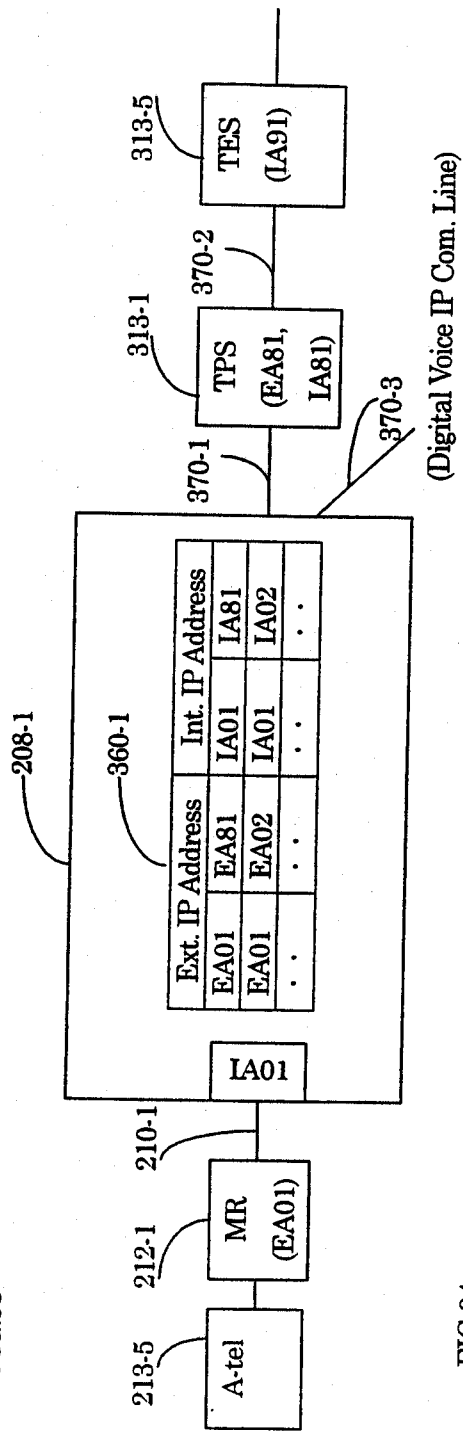
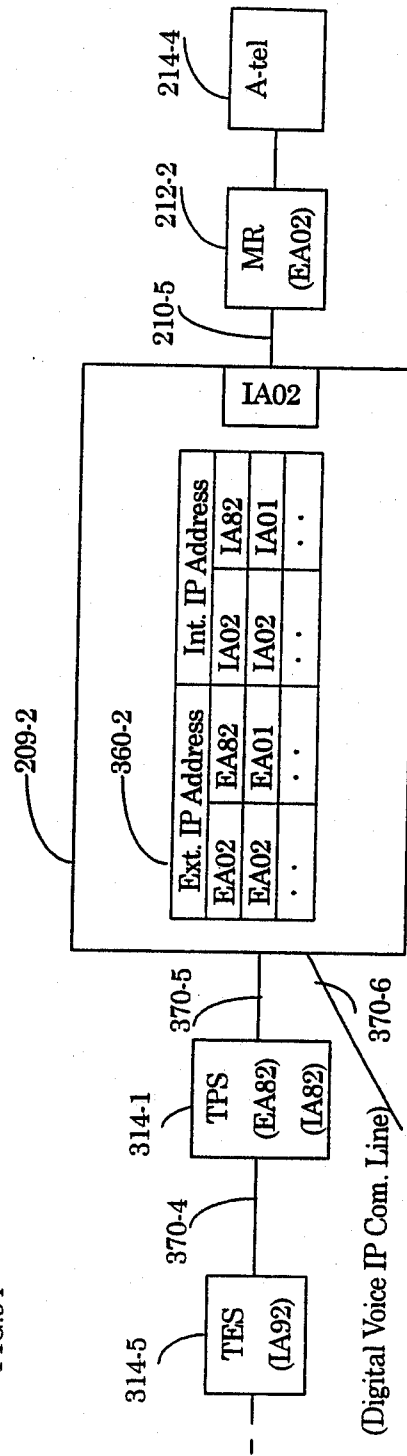
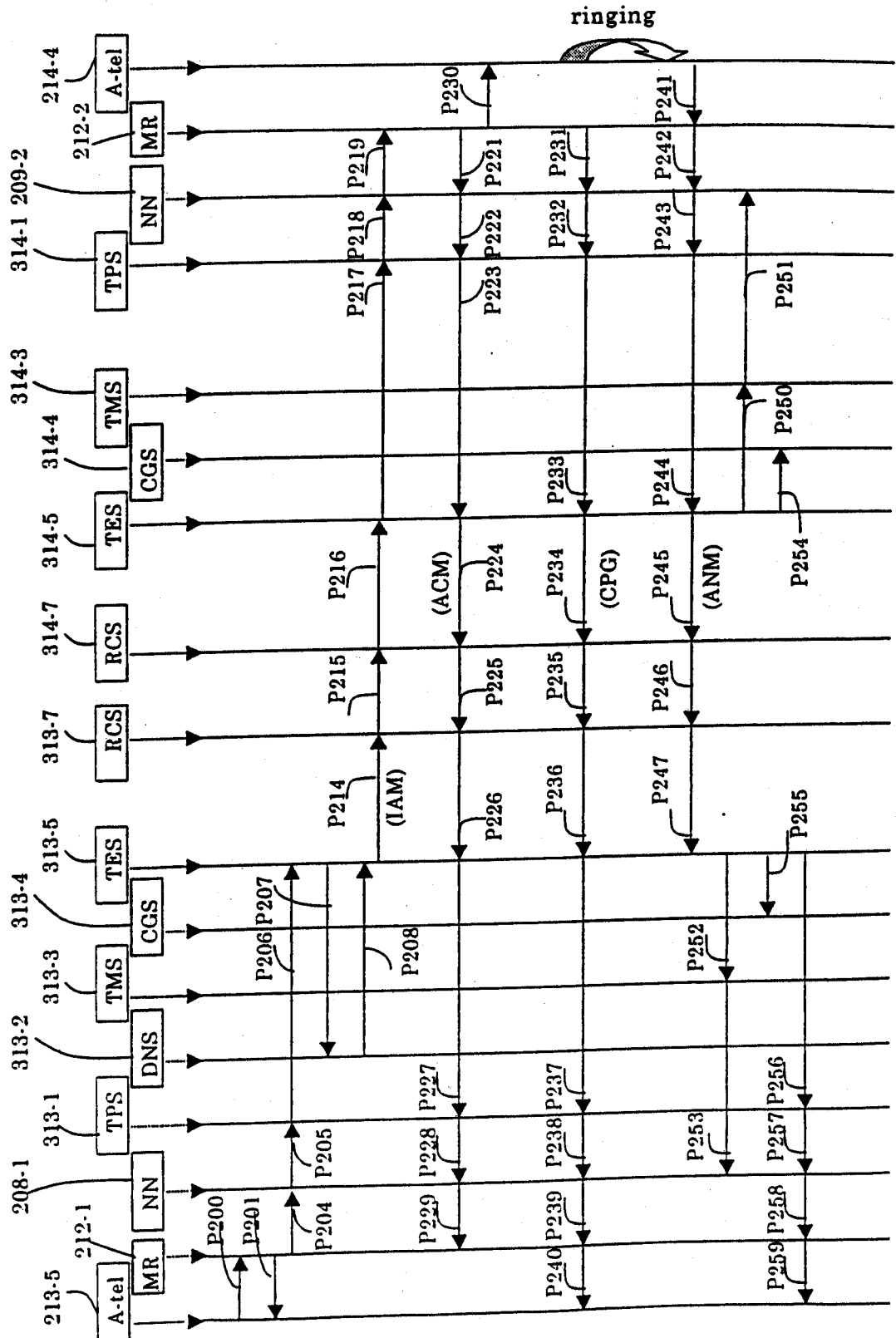


FIG.94



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FIG. 95



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FIG.96

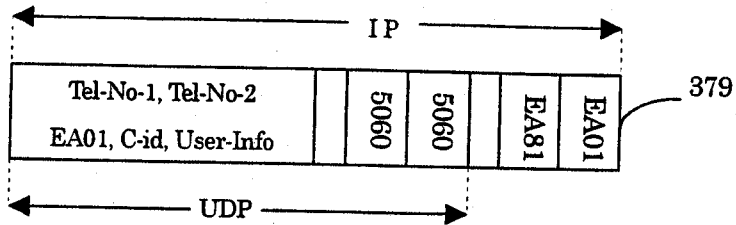


FIG.97

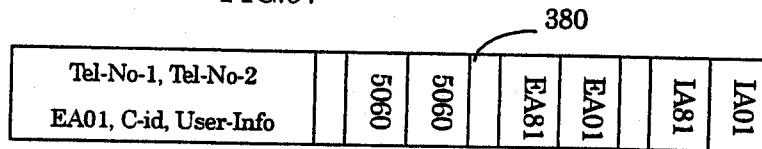


FIG.98

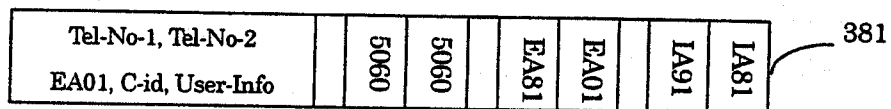


FIG.99

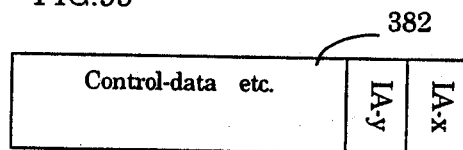


FIG.100

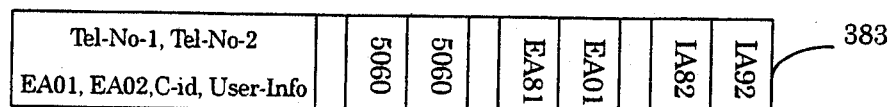


FIG.101

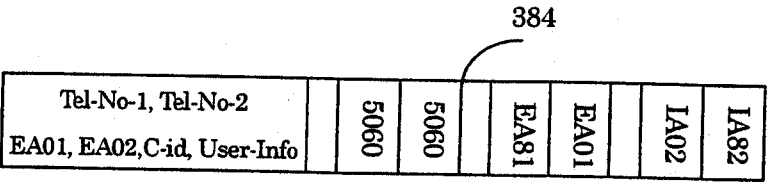
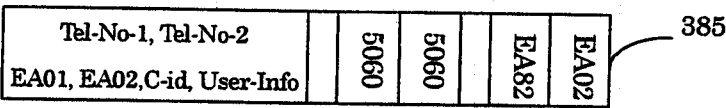
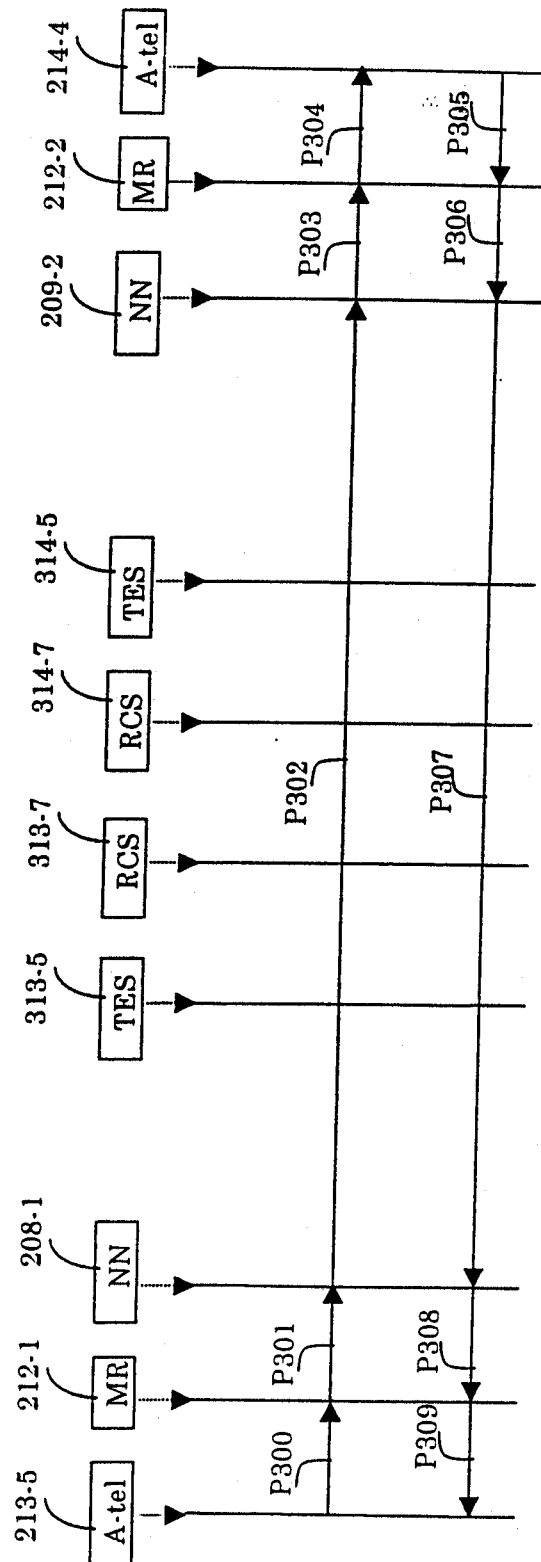


FIG.102



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FIG.103



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FIG.104

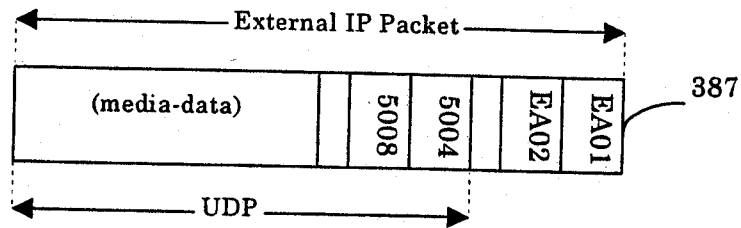


FIG.105

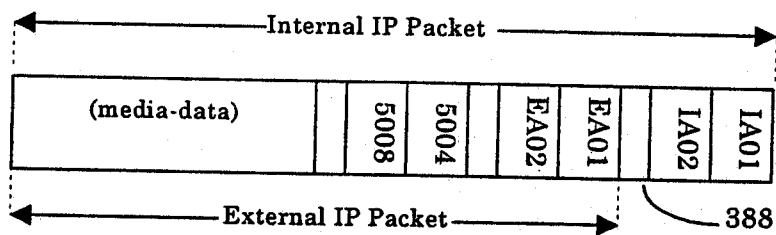
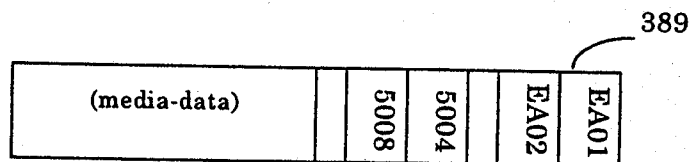
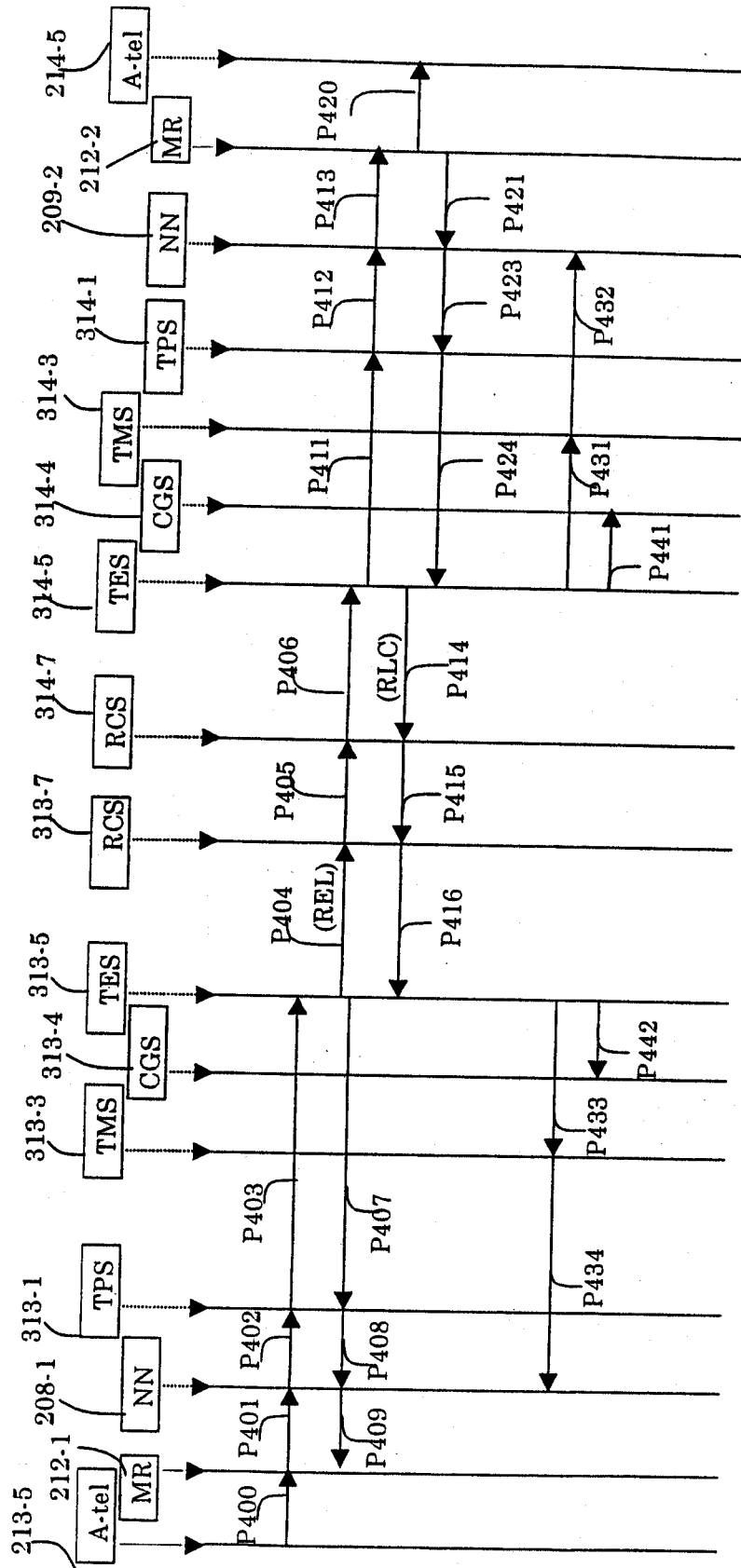


FIG.106



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FIG.107



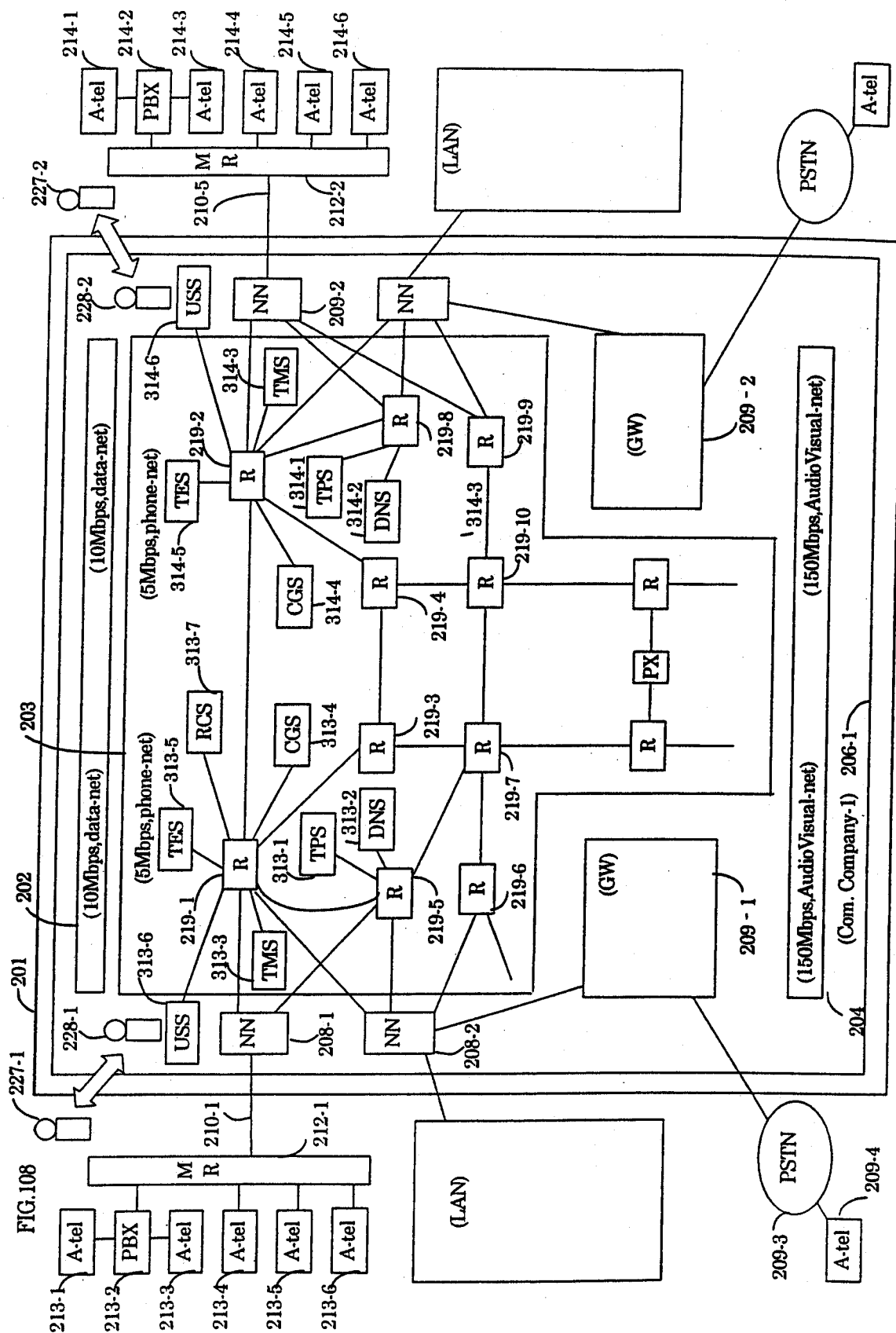
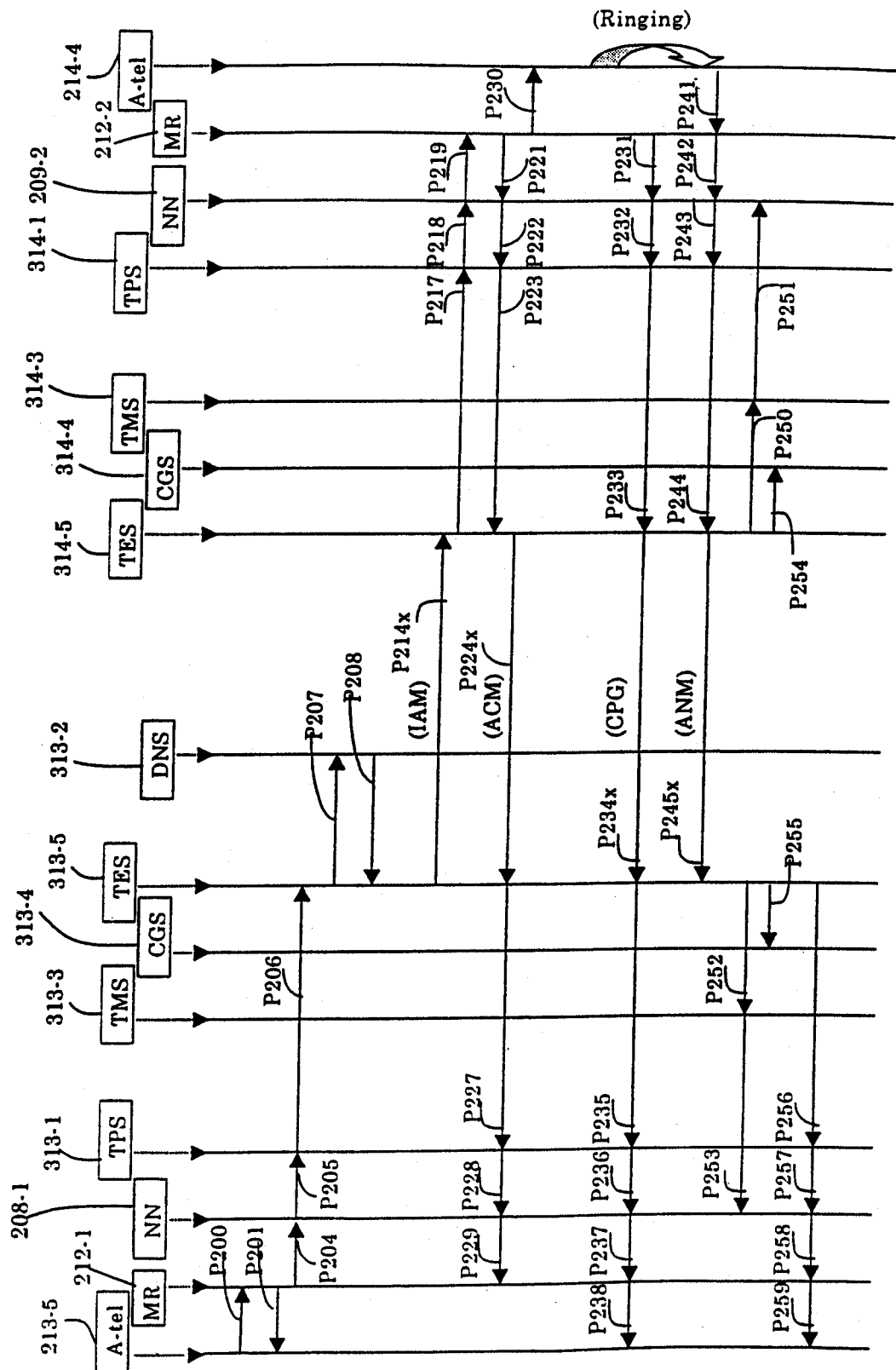


FIG.109



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FIG.110

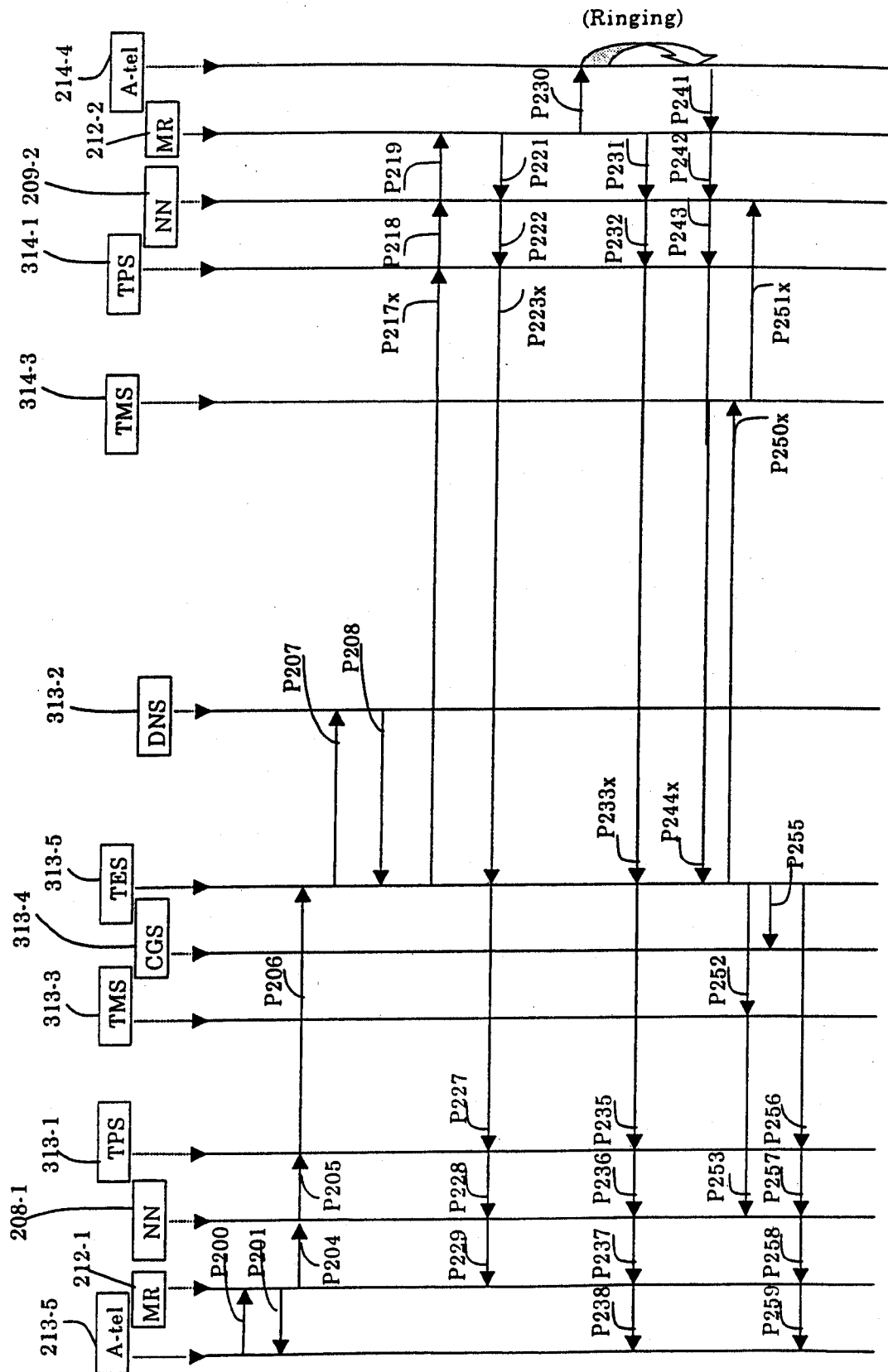


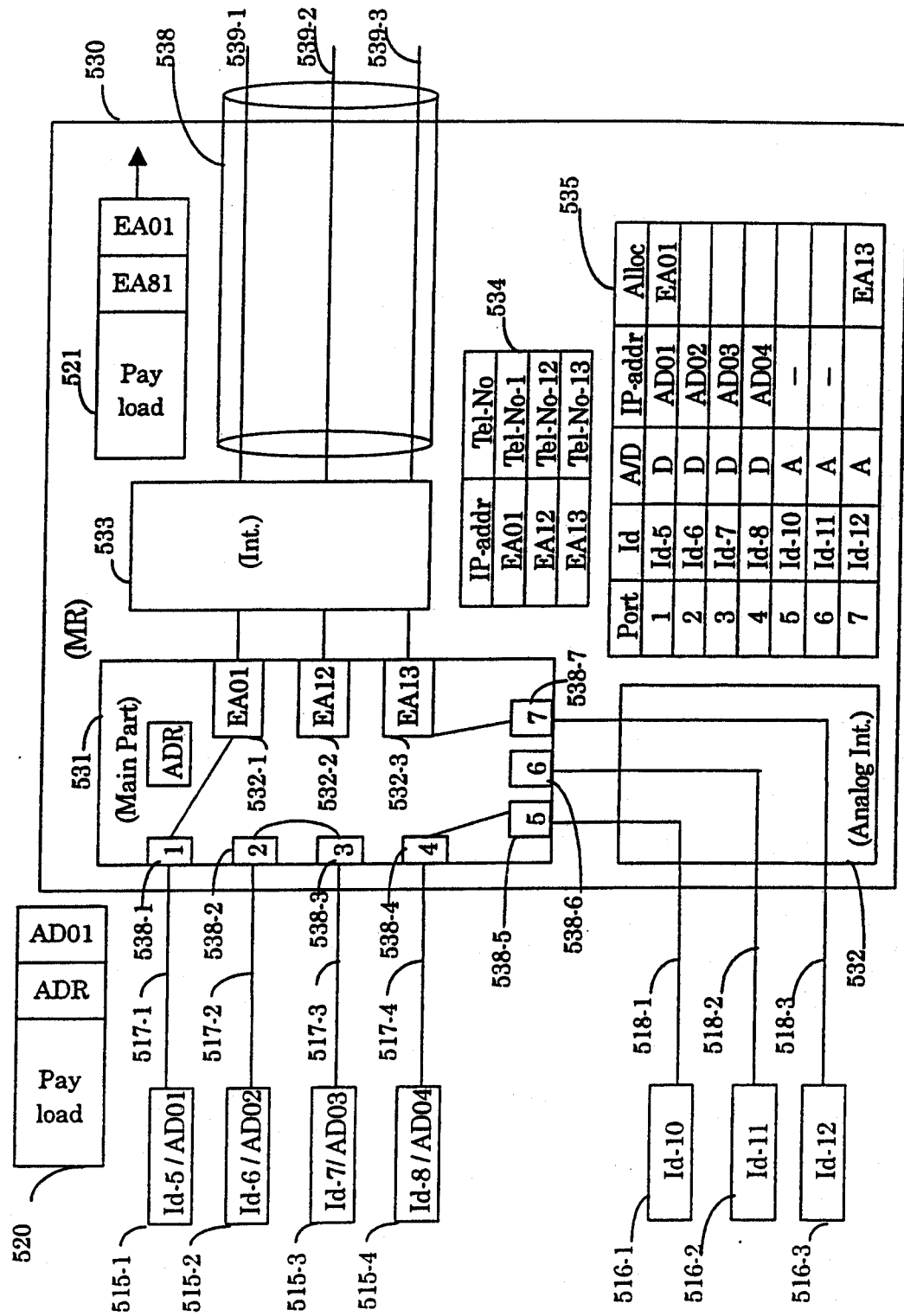
FIG.111

No.	Telephone No.	Own Com. ?	Iden. Information of Another Company
1	81-3-5414-xxxx	No.	Com-130
2	1-2245-5678	No.	Com-025
3	81-47-325-3887	Yes	
4	81-2245-56xx	Yes	
. .	81-6-1234-xxxx	Yes	
n	1-2345-2345	No	Com-840

FIG.112

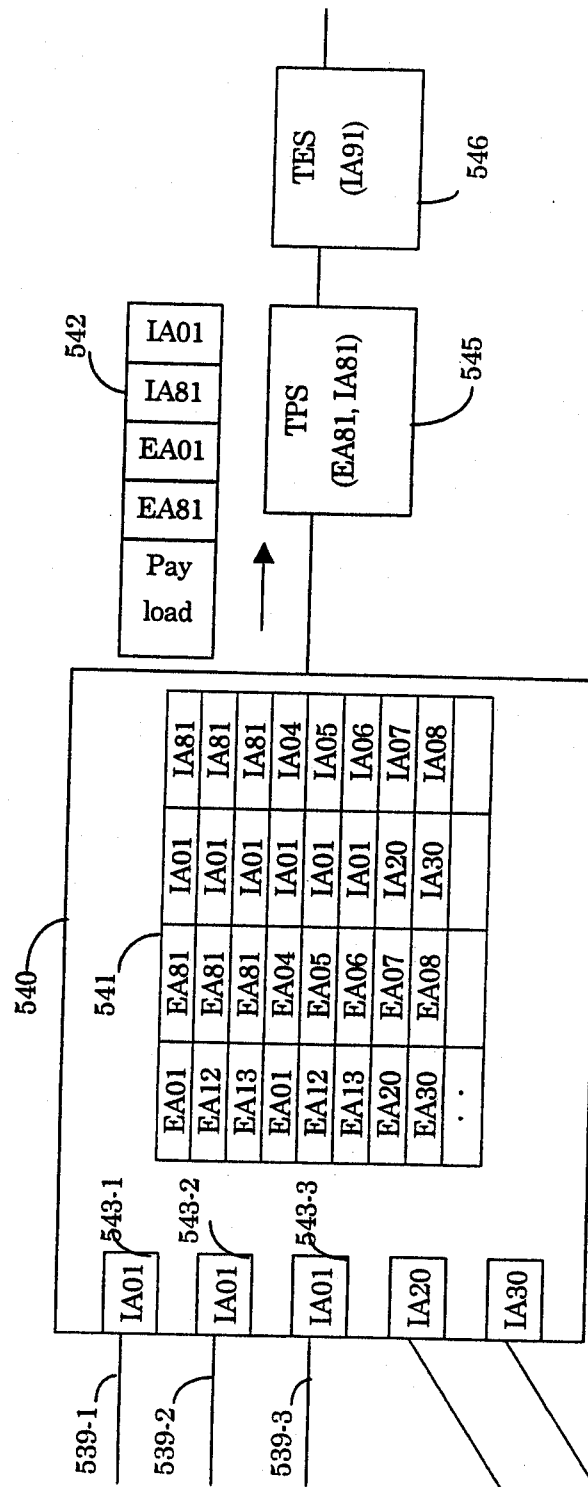
No.	Telephone No.	Operated by This TES ? (Own Company)	Iden. Inform.of Another TES (Own Company)
1	81-47-325-3887	Yes	
2	81-2245-56xx	No.	100.10.11.40
3	81-6-1234-xxxx	Yes	
. .			
m	1-2345-2345	No	100.10.11.70

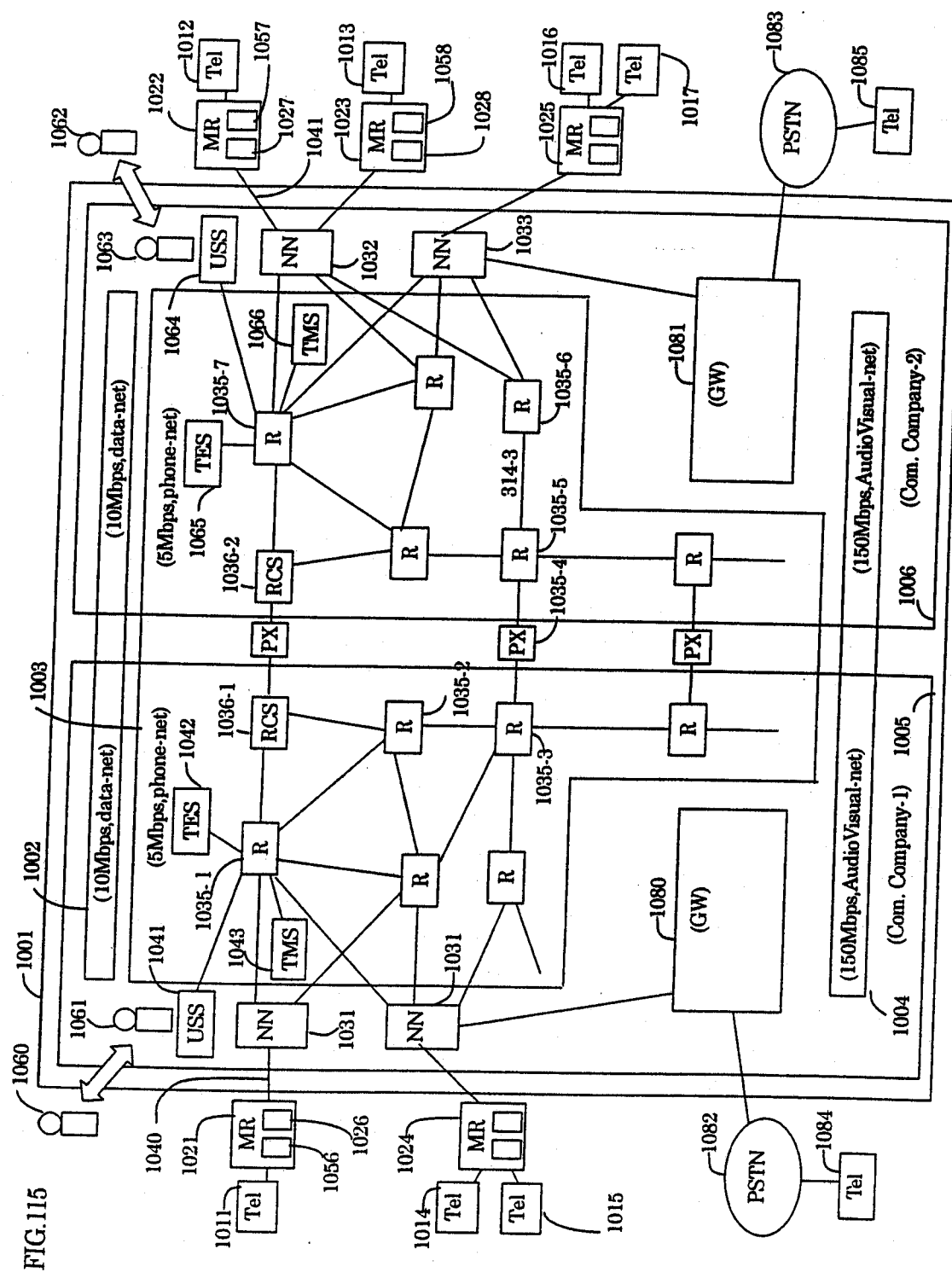
FIG. 113



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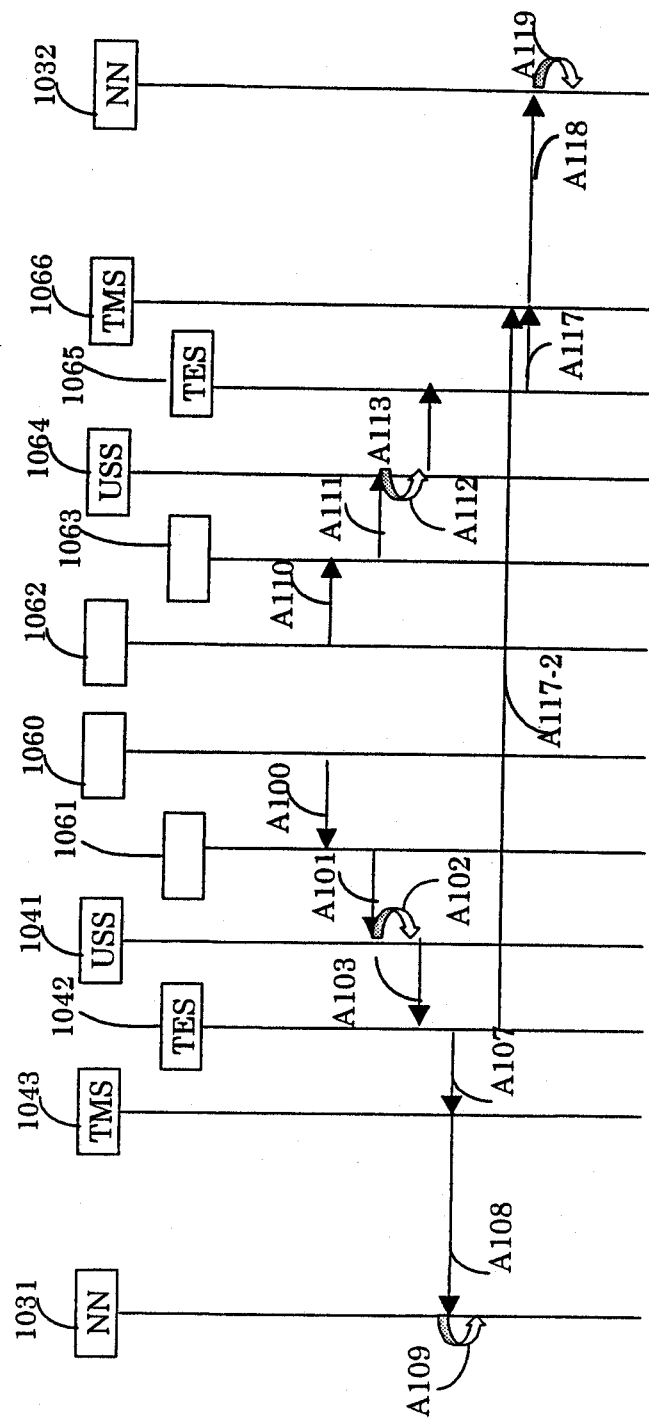
FIG. 114





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FIG. 116



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FIG.117

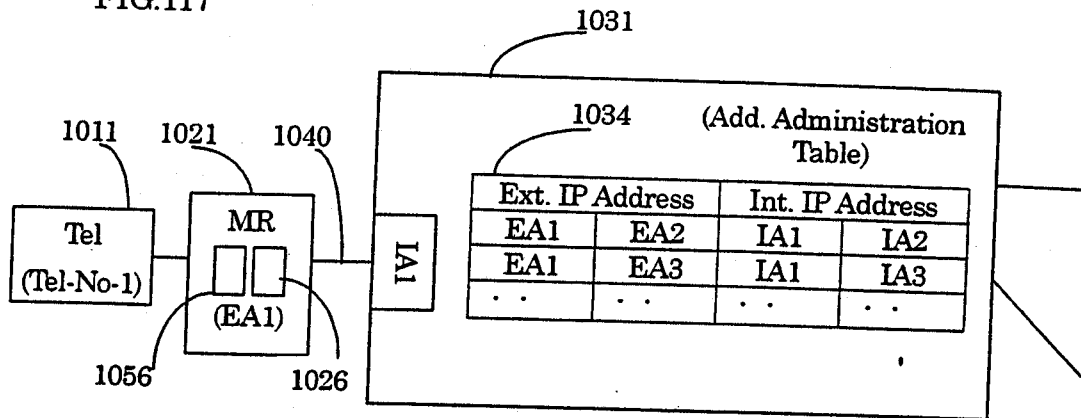


FIG.118

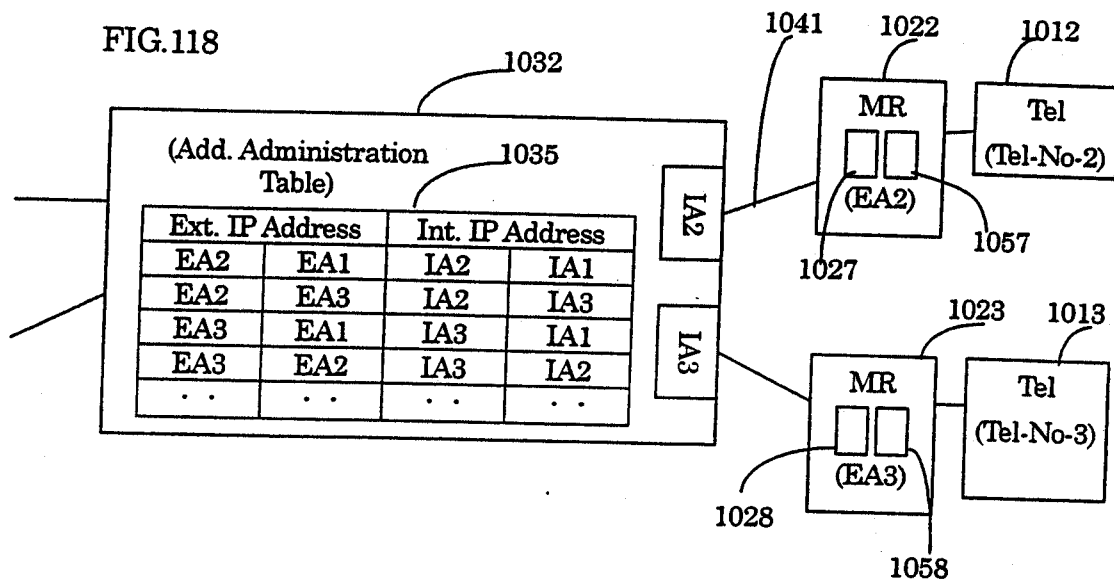
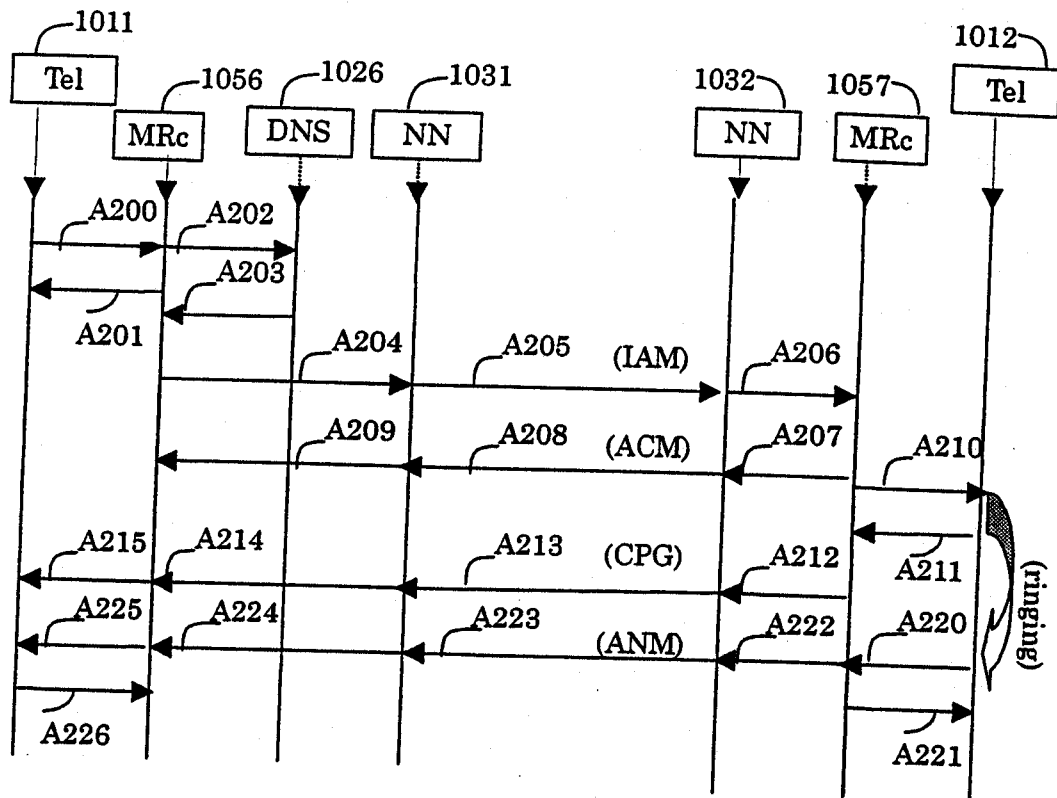


FIG.119



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FIG.120

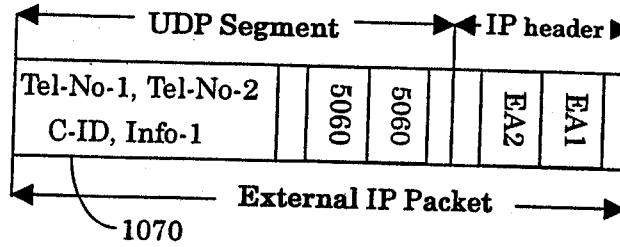


FIG.121

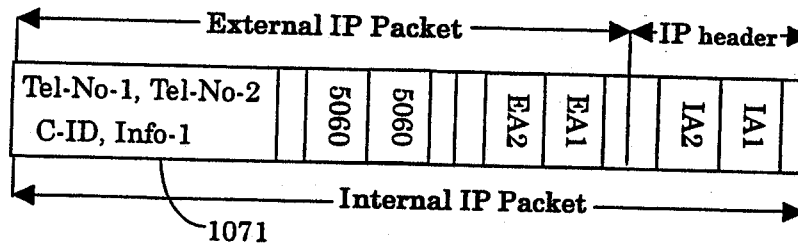


FIG.122

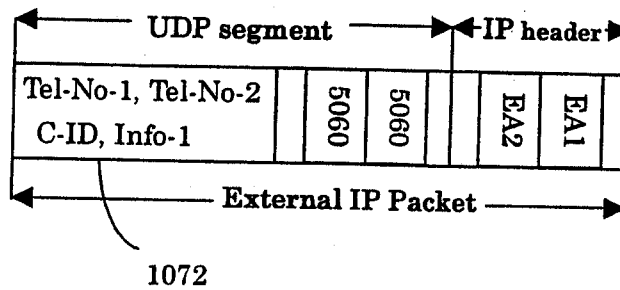


FIG.123

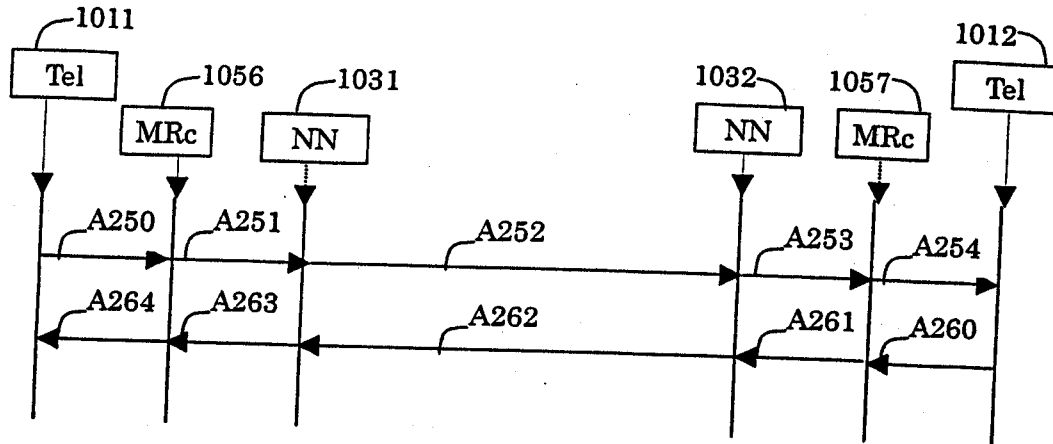


FIG.124

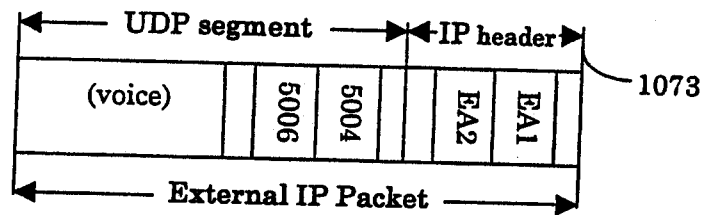


FIG.125

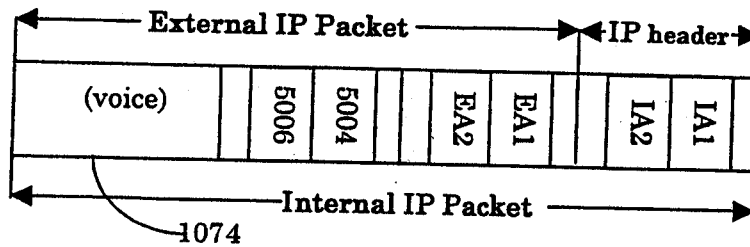
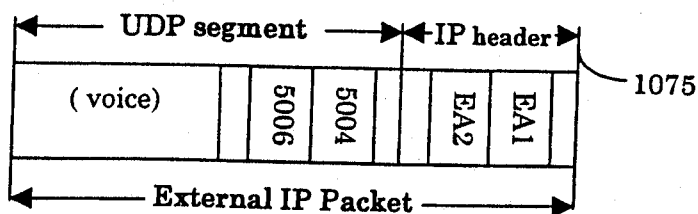


FIG.126



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FIG. 127

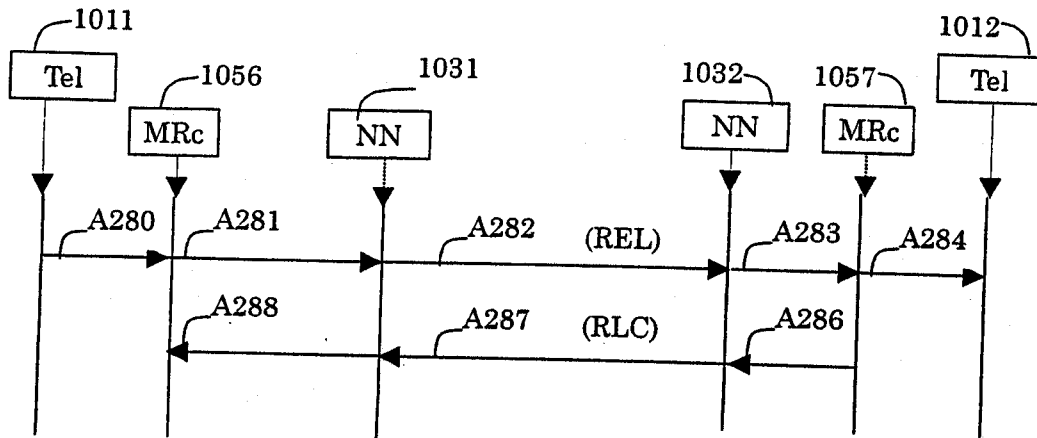
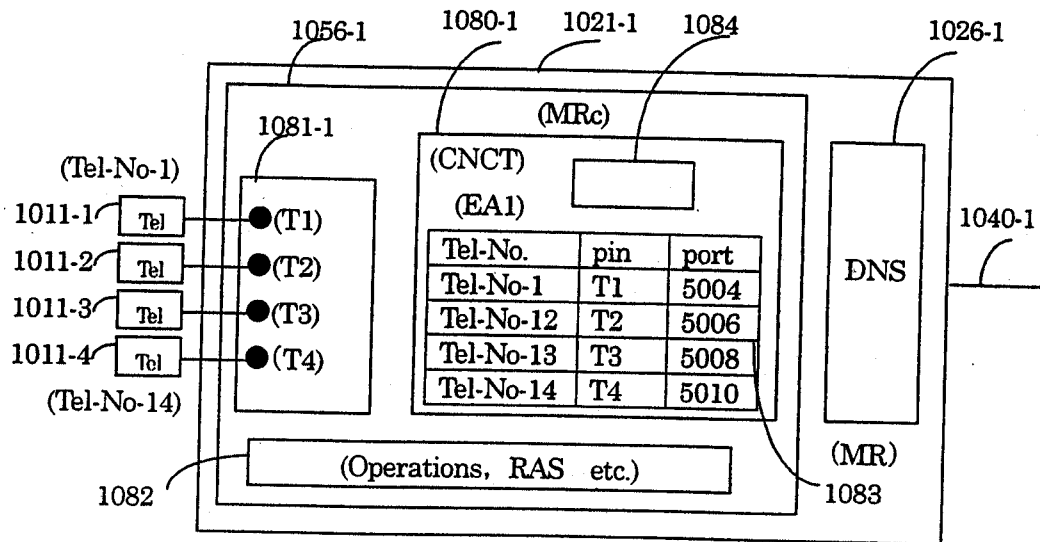


FIG. 128



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FIG.129

Tel.No.	pin	port
Tel-No-1	T1	5004
Tel-No-1	T2	5006
Tel-No-1	T3	5008
Tel-No-1	T4	5010

FIG.130

Tel.No.	pin	port
Tel-No-1	T1	
Tel-No-12	T2	5004
Tel-No-13	T3	
Tel-No-14	T4	

FIG.131

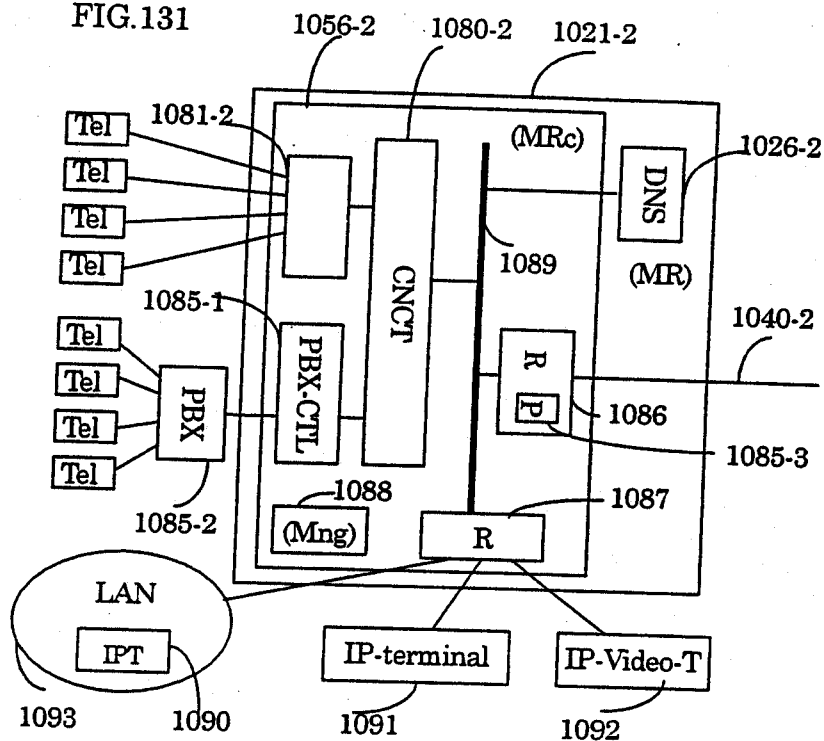


FIG.132

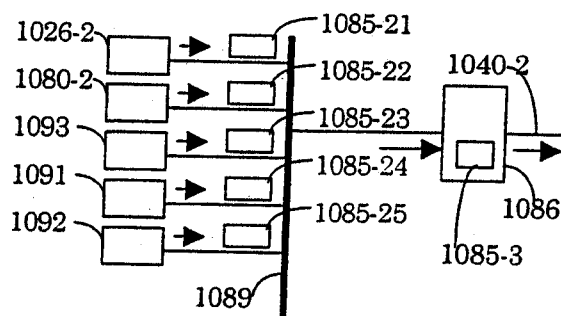


FIG.133

(priority)	(port-No.)
2 (high)	108
1	5060, 5004 to 5020
0	others

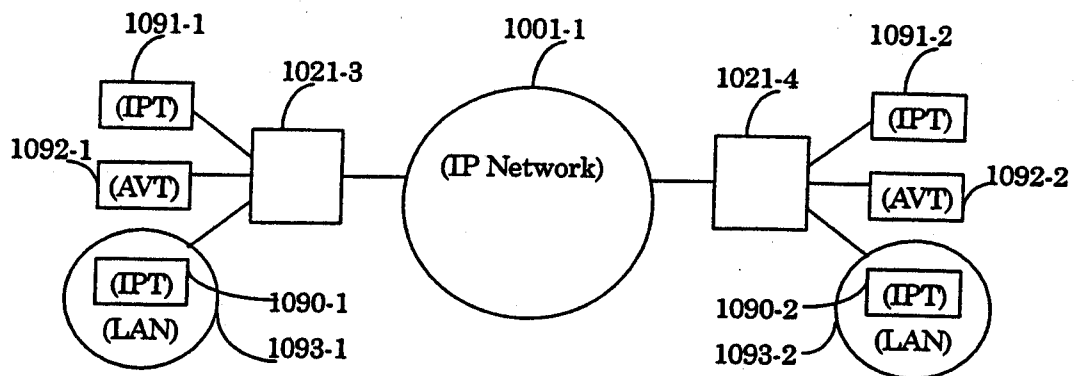
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FIG.134

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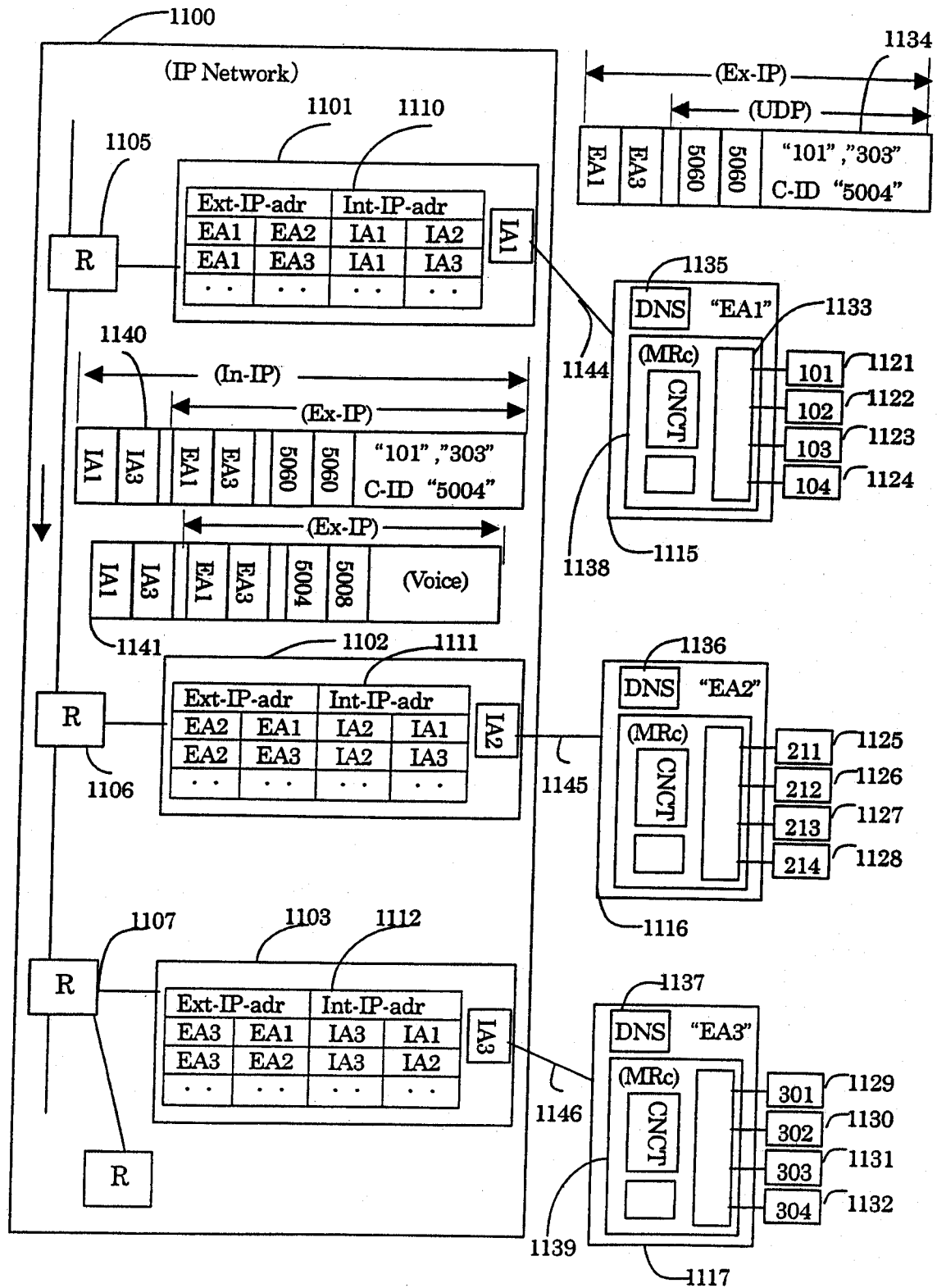
(priority)	(IP address - port No.)
2 (high)	150.1.2.3 - 108
1	192.1.2.3 - 5060, 192.1.2.3 - (5004 to 5020)
0	others

FIG.135



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FIG. 136



Sequence diagram 1100 illustrates the call setup sequence between a first telephone 1121 and a second telephone 1131. The sequence involves a series of signaling messages (A300-A388) and voice transmission (A352, A362). Key messages include A305 (IAM), A308 (ACM), A313 (CPG), A323 (ANM), A352 (voice), A362 (voice), A382 (REL), and A387 (RLC). The diagram also shows a ringing period (A310-A311) and a final release sequence (A382-A388).

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FIG.138

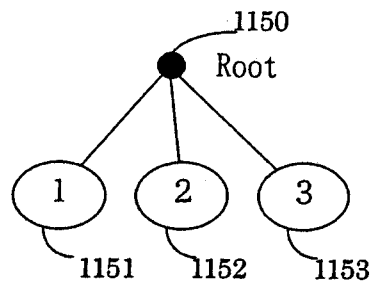


FIG.139

Telephone Number	Domain Name Expression of Telephone No.
1 × ×	1 .
2 × ×	2 .
3 × ×	3 .

FIG.140

Question to Telephone Number Server		Contents of Answer
Question	1 .	EA1
	2 .	EA2
	3 .	EA3

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FIG.141

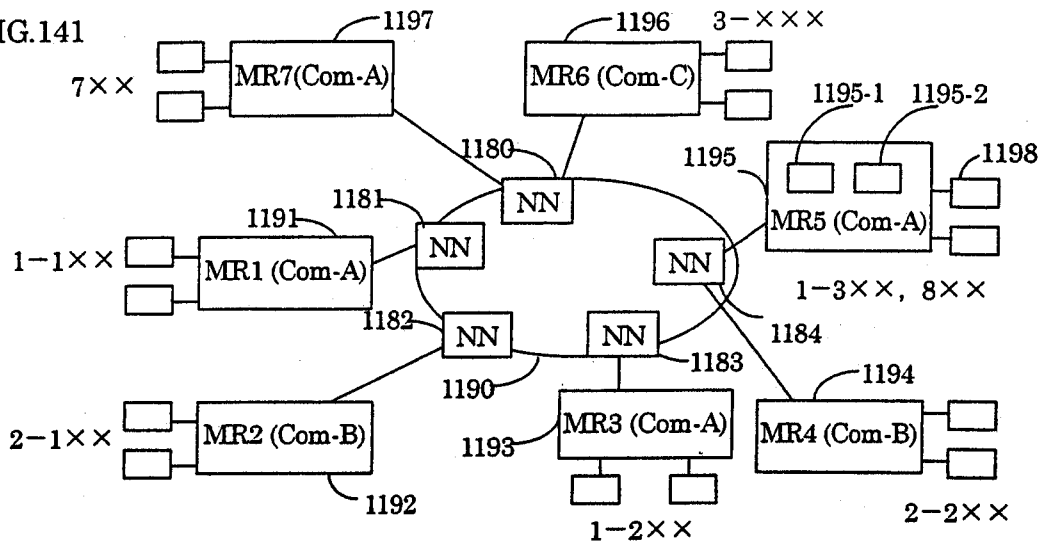


FIG.142

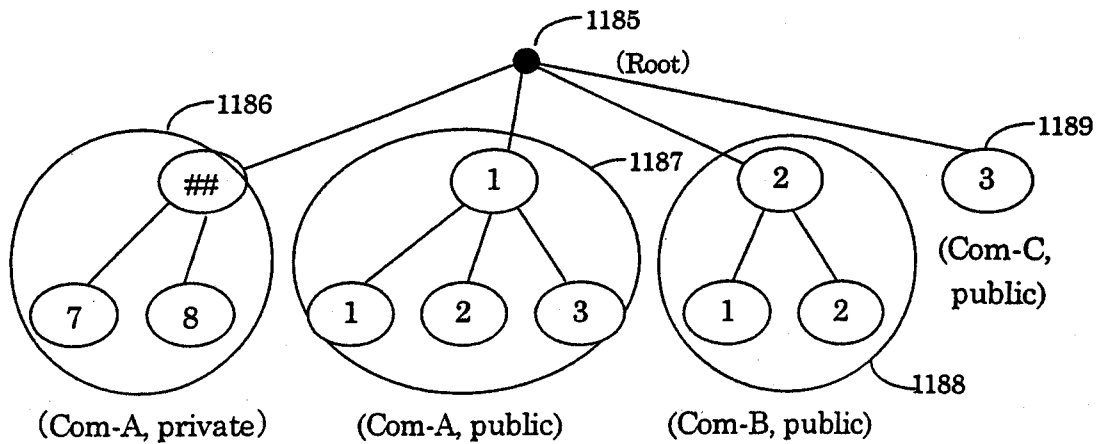


FIG.143

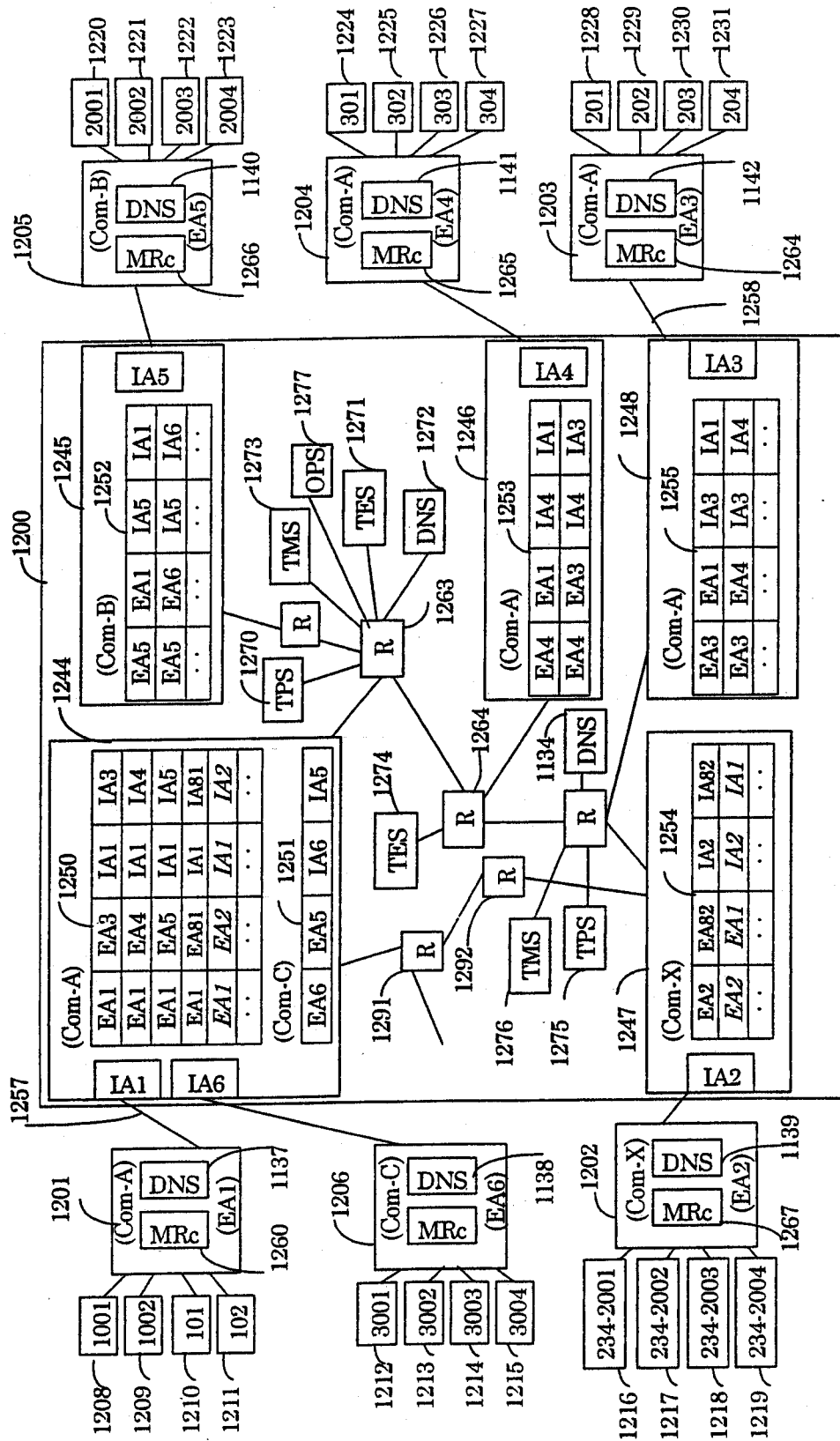
Telephone Number	Domain Name Expression of Telephone No.
1-1xx	1. 1.
1-2xx	2. 1.
1-3xx	3. 1.
2-1xx	1. 2.
2-2xx	2. 2.
3-xxx	3.
7xx	7. #.
8xx	8. #.

FIG.144

Question to Telephone No. Server	Contents of Answer
1. 1.	IP Address of MR1
2. 1.	IP Address of MR3
3. 1.	IP Address of MR5
1. 2.	IP Address of MR2
2. 2.	IP Address of MR4
3.	IP Address of MR6
7. ##.	IP Address of MR7
8. ##.	IP Address of MR5

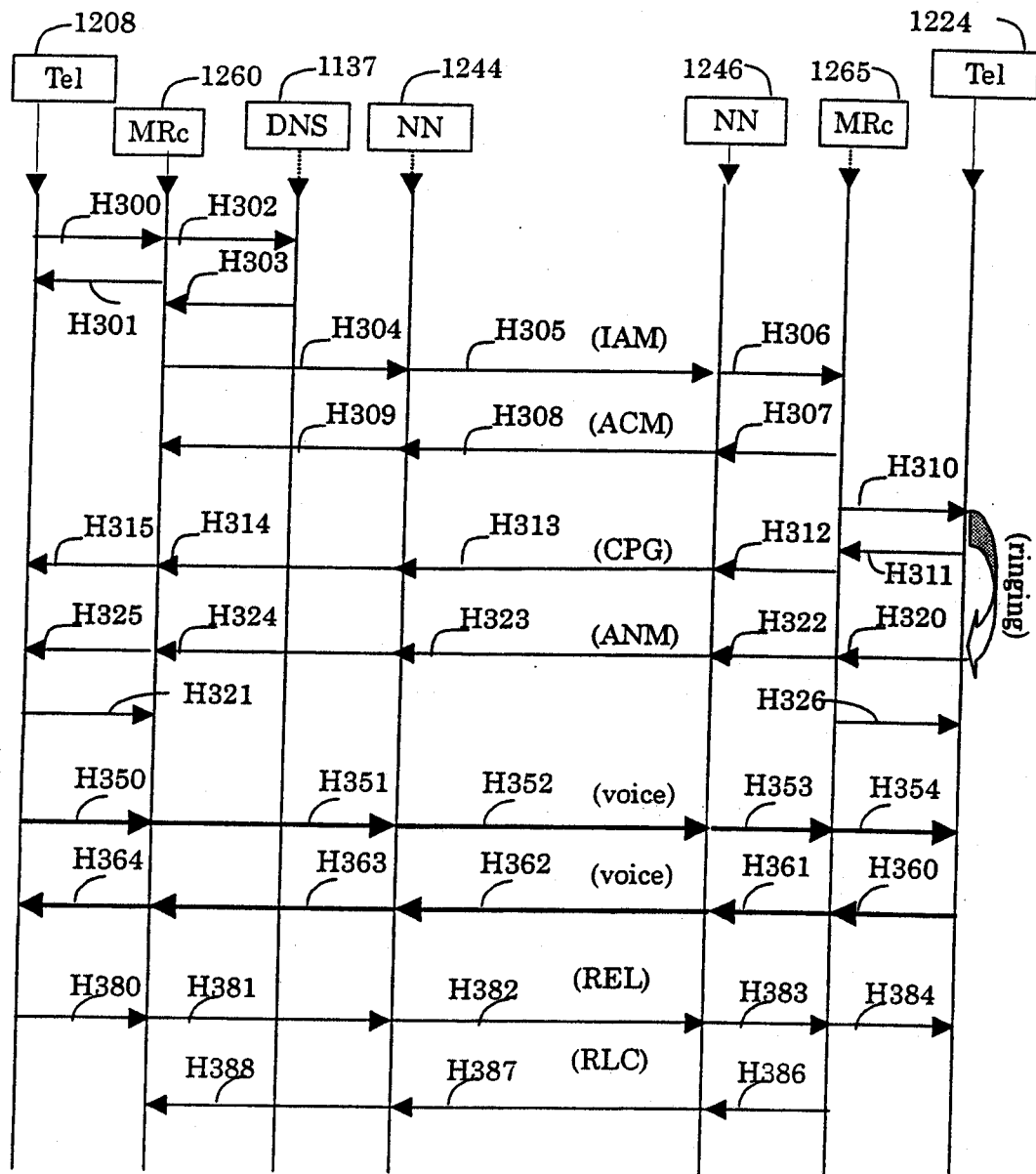
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FIG. 145



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FIG. 146



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FIG.147

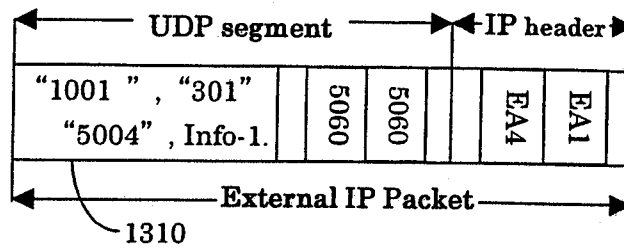


FIG.148

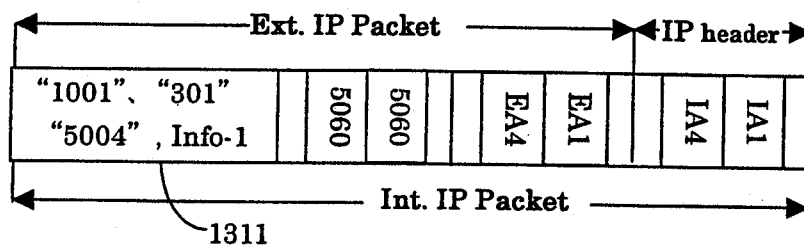


FIG.149

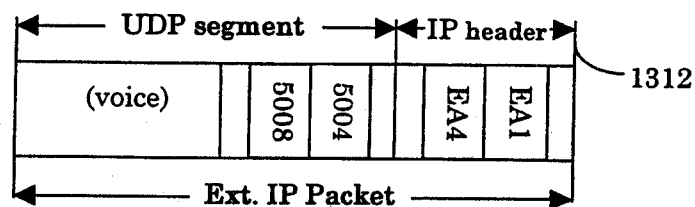


FIG.150

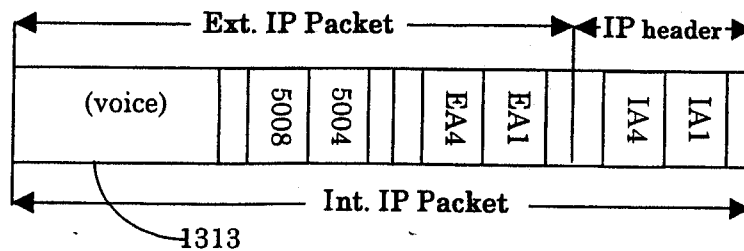
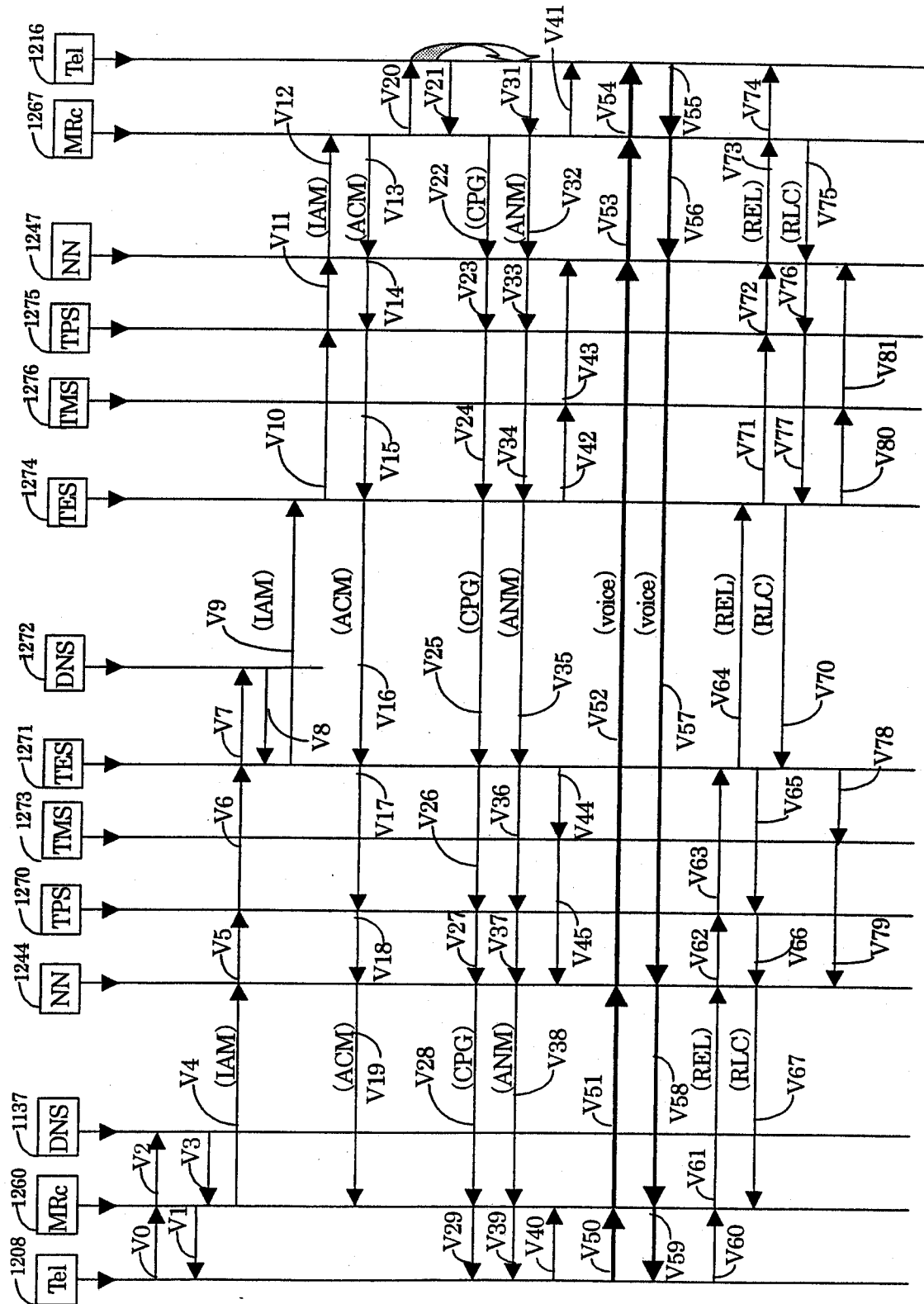


FIG. 151



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FIG.152

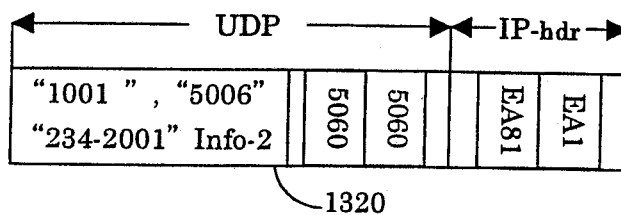


FIG.153

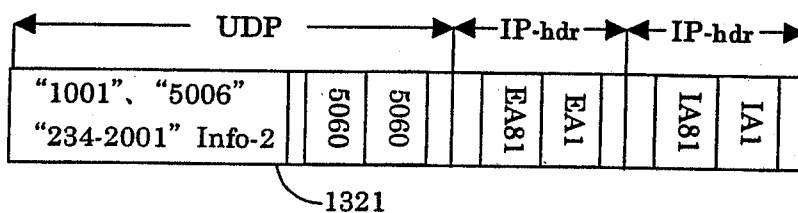


FIG.154

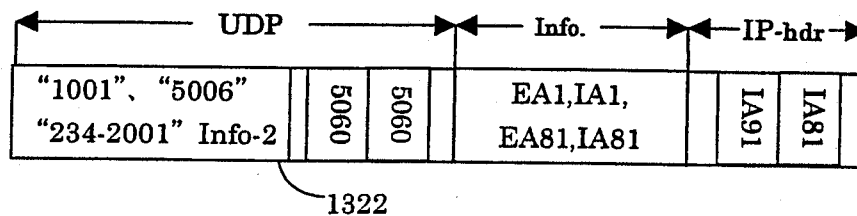


FIG.155

CIC No.	Sender Phone No.	Receiver Phone No.	IP Address	Step	Start Time	End Time
CIC-1	"1004"	"××.×.×"	×,×,××.×	ANM	St-1	
CIC-2	"1001"	"234-2001"	EA1,IA1,EA81,IA81,IA91	IAM	St-2	
..	..	..	..	..	..	..

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FIG.156

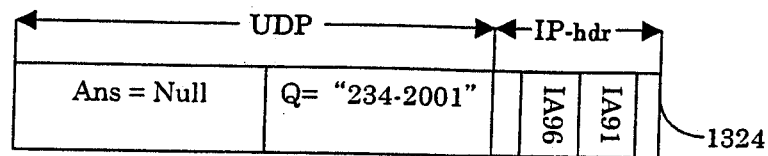


FIG.157

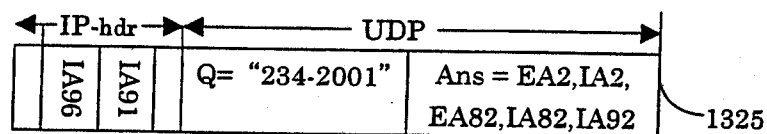


FIG.158

CIC No.	Sender Phone No.	Receiver Phone No.	IP Address	Step	Start Time	End Time
CIC-1	"1004"	"X X"	X, X, X X . .	ANM	St-1	
CIC-2	"1001"	"234-2001"	EA1,IA1,EA81,IA81,IA91,EA2,IA2,EA82,IA82,IA92	IAM	St-2	
. .	. .	. .	. .	. .	. .	. .

FIG.159

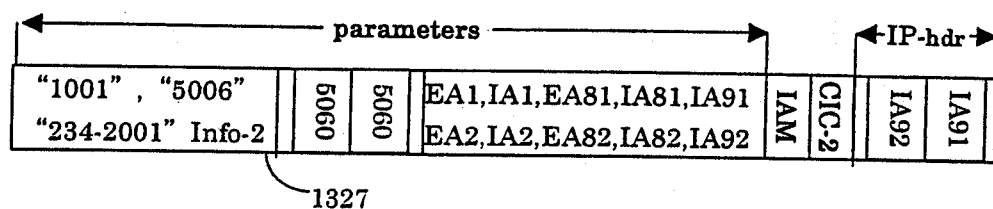


FIG.160

CIC No.	Sender Phone No.	Receiver Phone No.	IP Address	Step	Start Time	End Time
CIC-2	"1001"	"234-2001"	EA1,IA1,EA81,IA81,IA91,EA2,IA2,EA82,IA82,IA92	IAM	St-3	
. .	. .	. .	. .	. .	. .	. .

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FIG.161

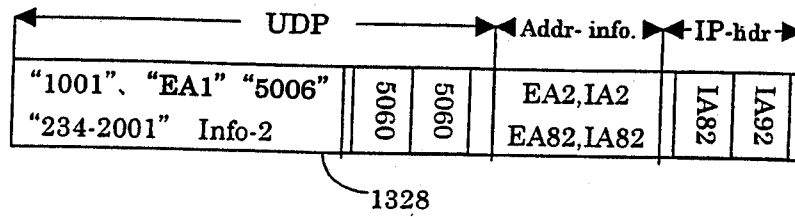


FIG.162

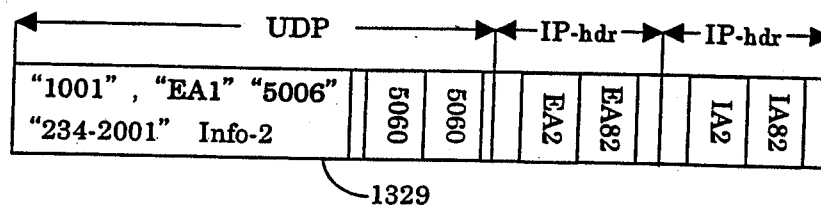


FIG.163

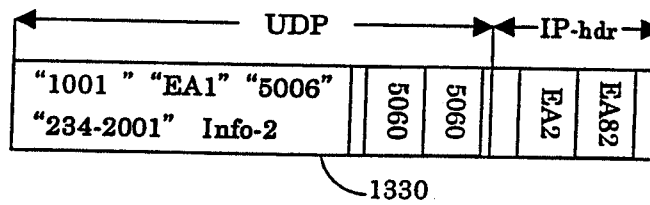


FIG.164

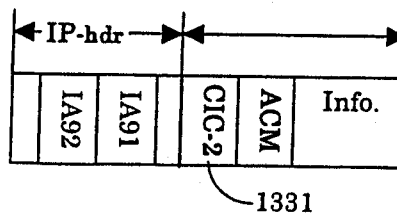
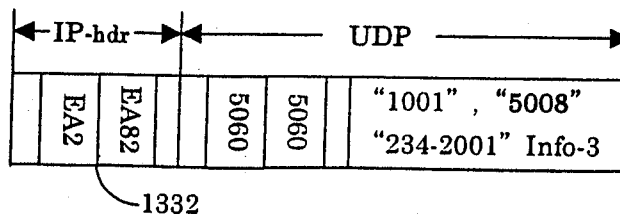


FIG.165



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FIG.166

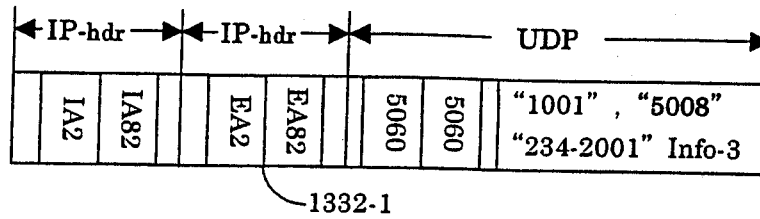


FIG.167

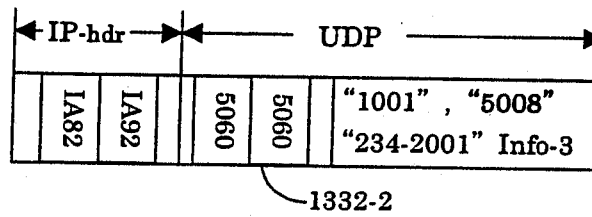


FIG.168

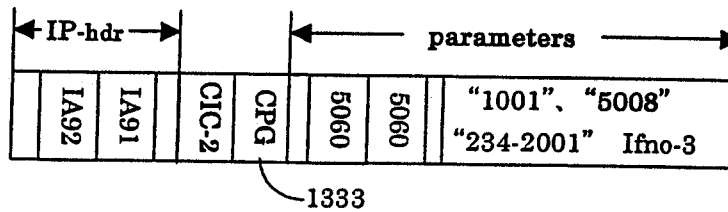


FIG.169

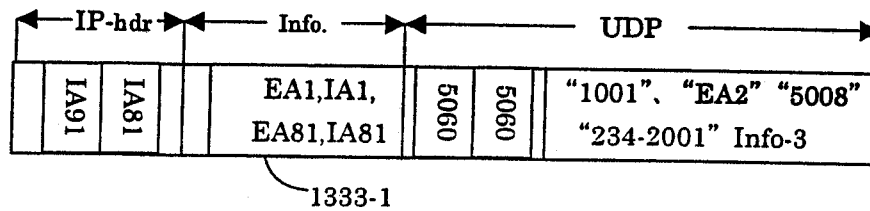
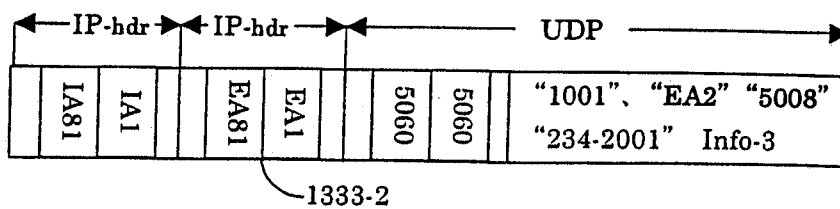


FIG.170



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FIG.171

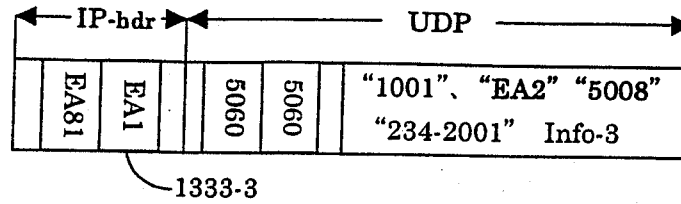


FIG.172

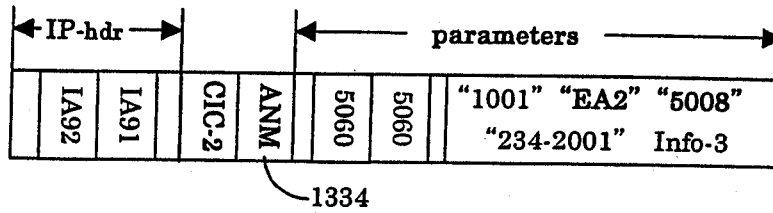


FIG.173

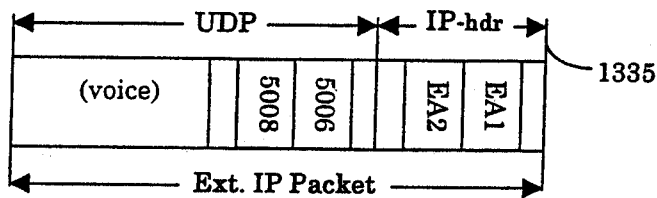
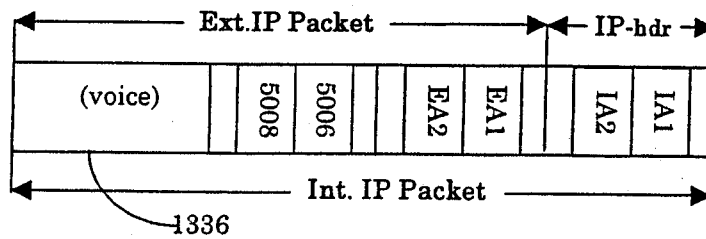


FIG.174



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FIG.175

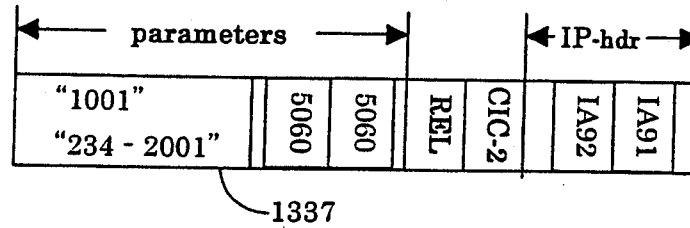
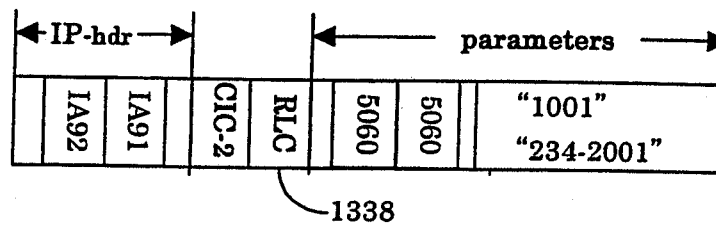


FIG.176



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FIG.177

1326-5

(MR IP Address)	No. of Using Line	Upper Lim. of Line
EA1	2	5
EA6	3	4
..	..	..

FIG.178

1326-6

(MR IP Address)	No. of Using Line	Upper Lim. of Line
EA7	0	3
EA2	2	7
..	..	..

FIG.179

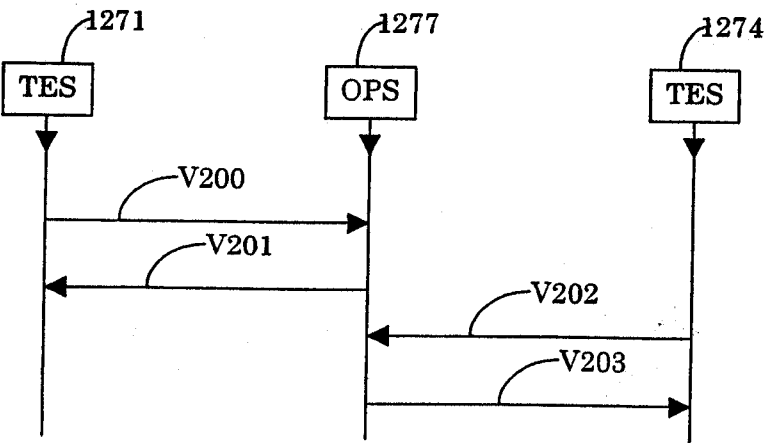
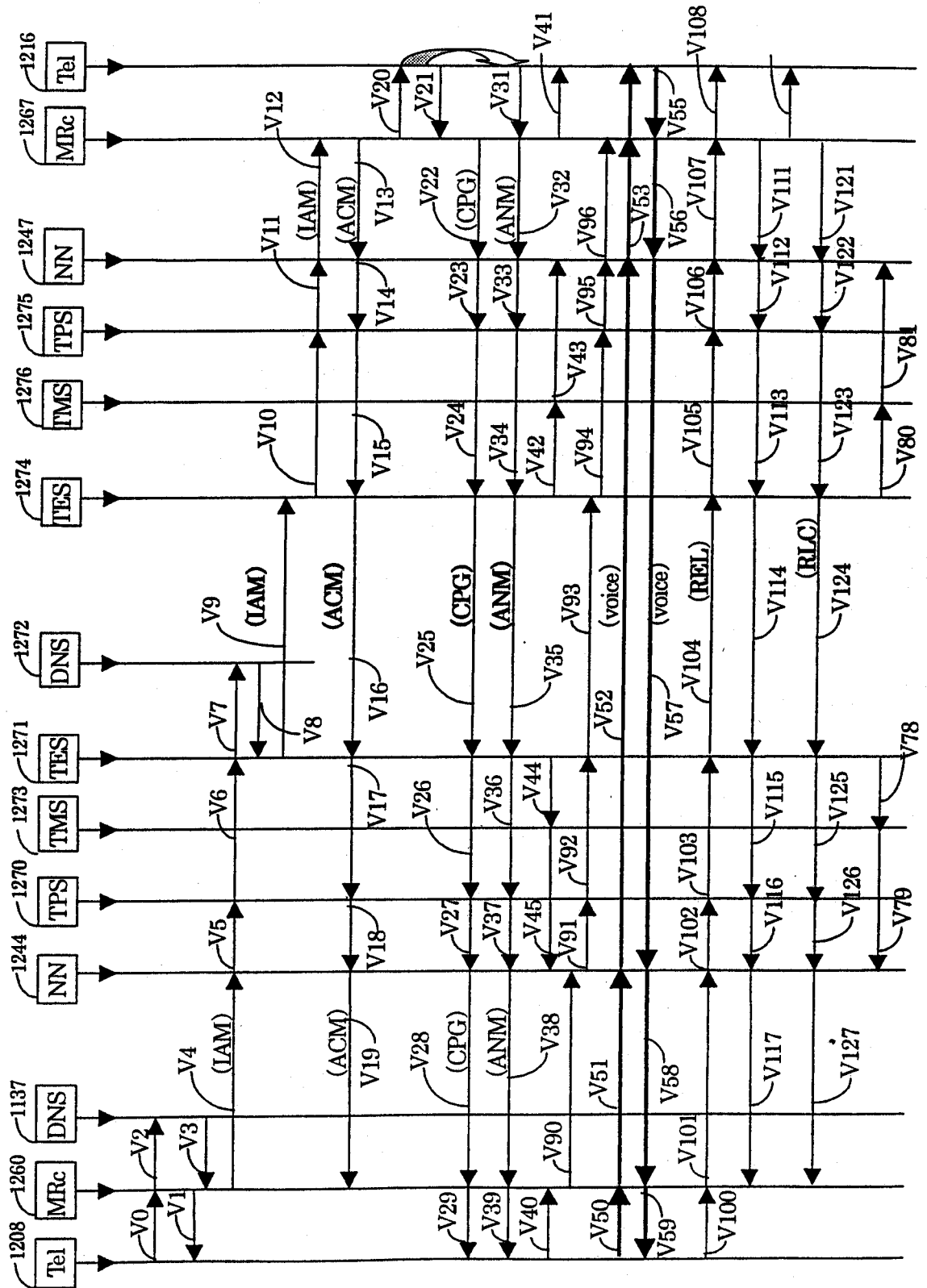


FIG.180



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FIG.181

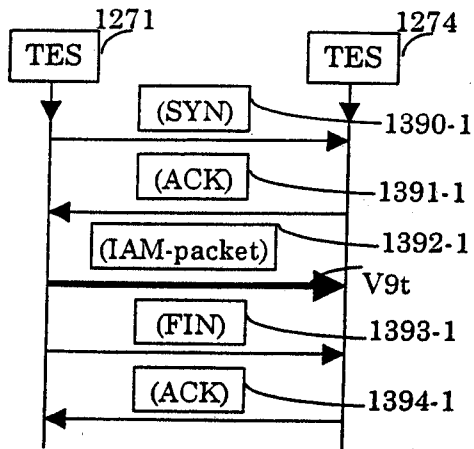


FIG.182

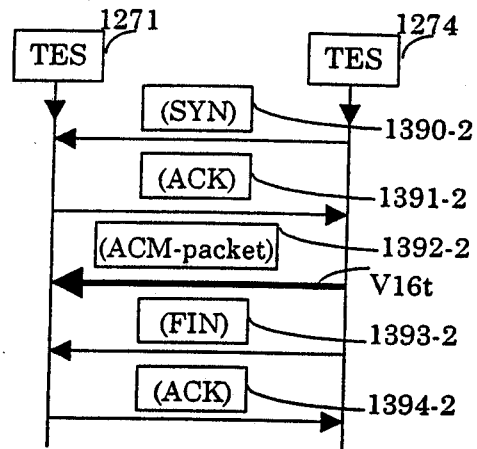


FIG.183

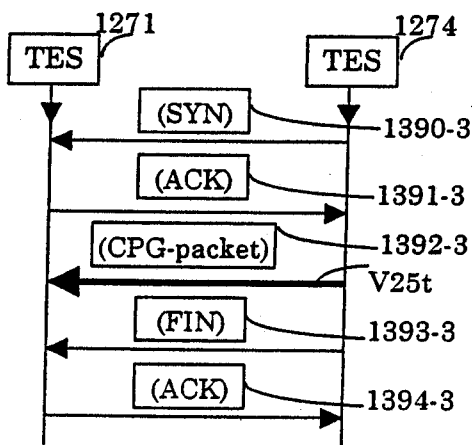


FIG.184

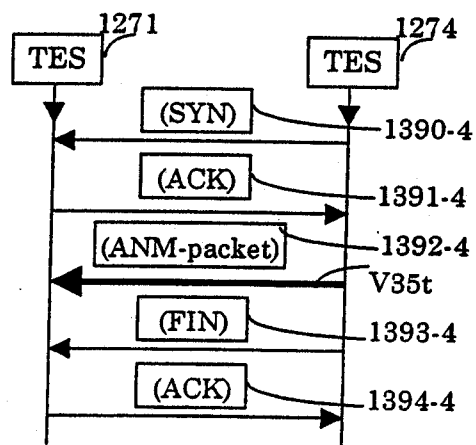


FIG.185

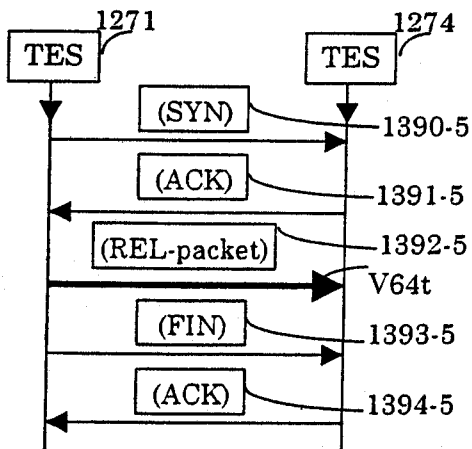
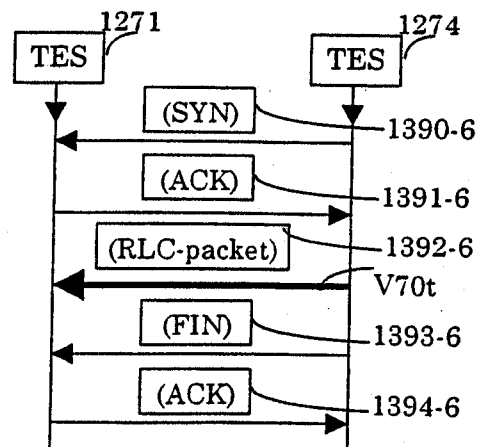
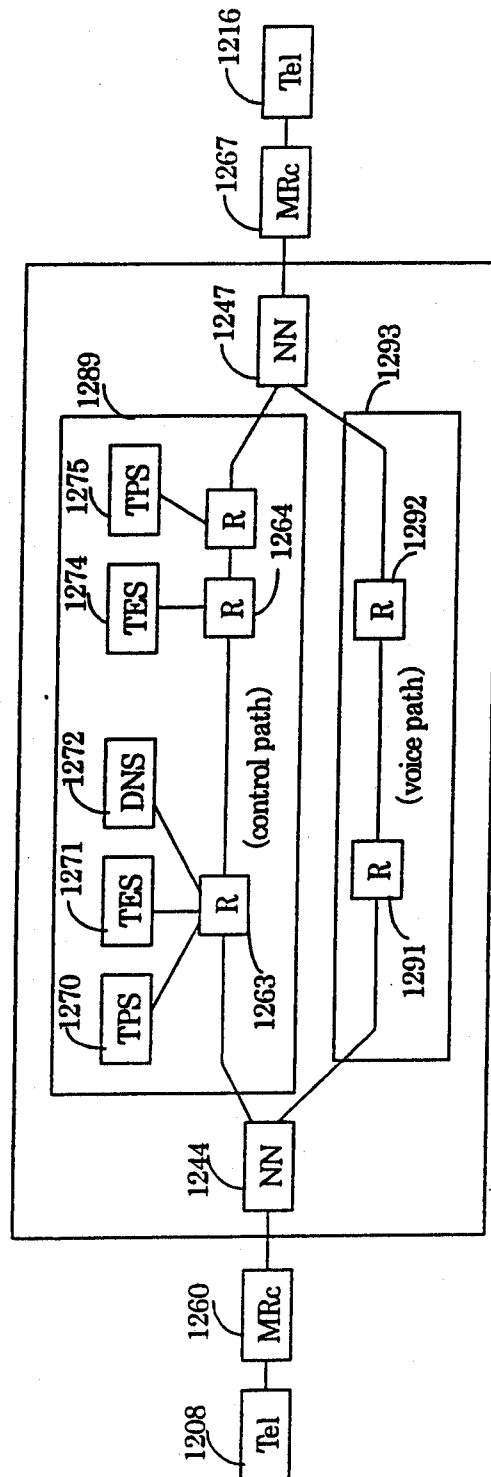


FIG.186



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FIG. 187



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FIG.188

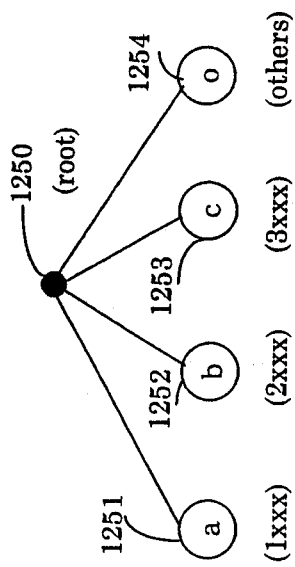


FIG.190

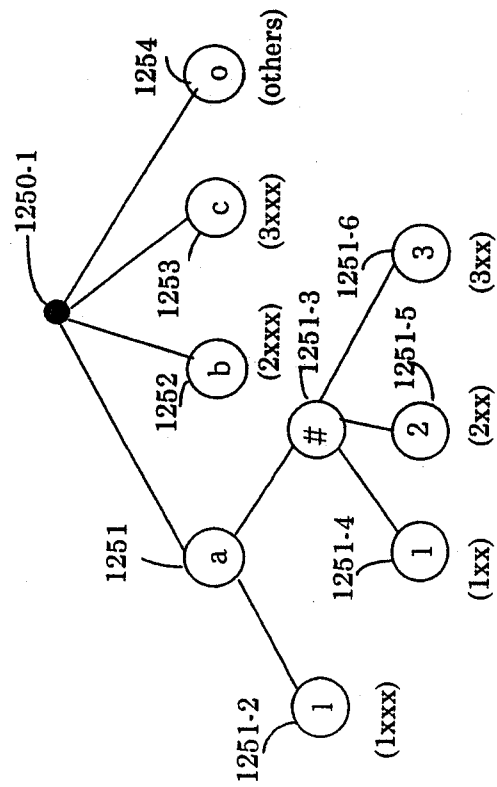
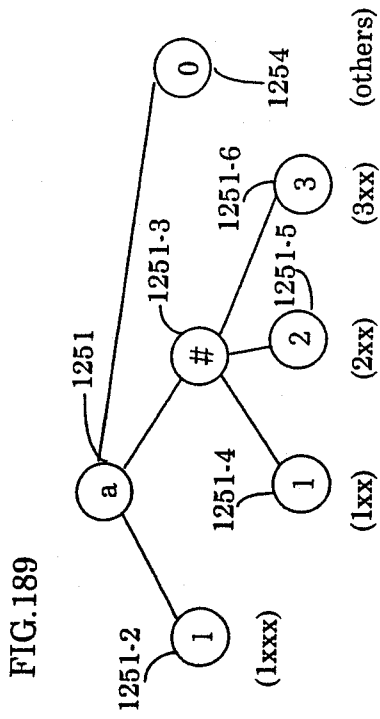
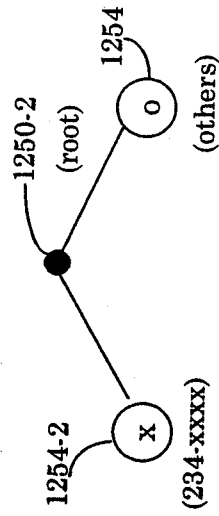


FIG.191



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FIG.192

1255-1

Phone No.	Domain Name Expression of Phone No.
1xxx	1.a.
2xxx	b.
3xxx	c.
1xx	1.#.a.
2xx	2.#.a.
3xx	3.#.a.
others	o.

FIG.193

1255-2

Domain Name Expression of Phone No.	IP Address
1.a.	EA1
b.	EA5
c.	EA6
1.#.a.	EA1
2.#.a.	EA3
3.#.a.	EA4
o.	EA81

FIG.194

1256-1

Phone No.	Domain Name Expression of Phone No.
1xxx	1.a.
1xx	1.#.a.
2xx	2.#.a.
3xx	3.#.a.
others	o.

FIG.195

1256-2

Domain Name Expression of Phone No.	IP Address
1.a.	EA1
1.#.a.	EA1
2.#.a.	EA3
3.#.a.	EA4
o.	EA81

FIG.196

1257-1

Phone No.	Domain Name Expression of Phone No.
1xxx	a.
2xxx	b.
3xxx	c.
others	o.

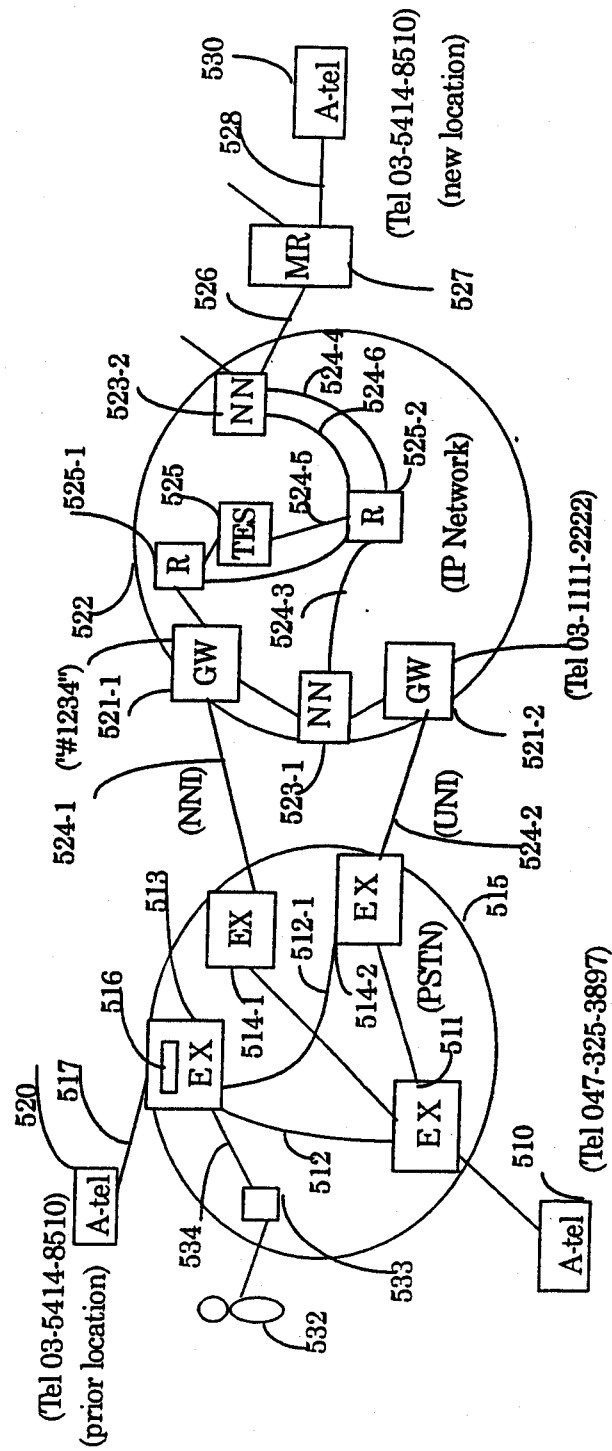
FIG.197

1257-2

Domain Name Expression of Phone No.	IP Address
a.	EA1
b.	EA5
c.	EA6
o.	EA81

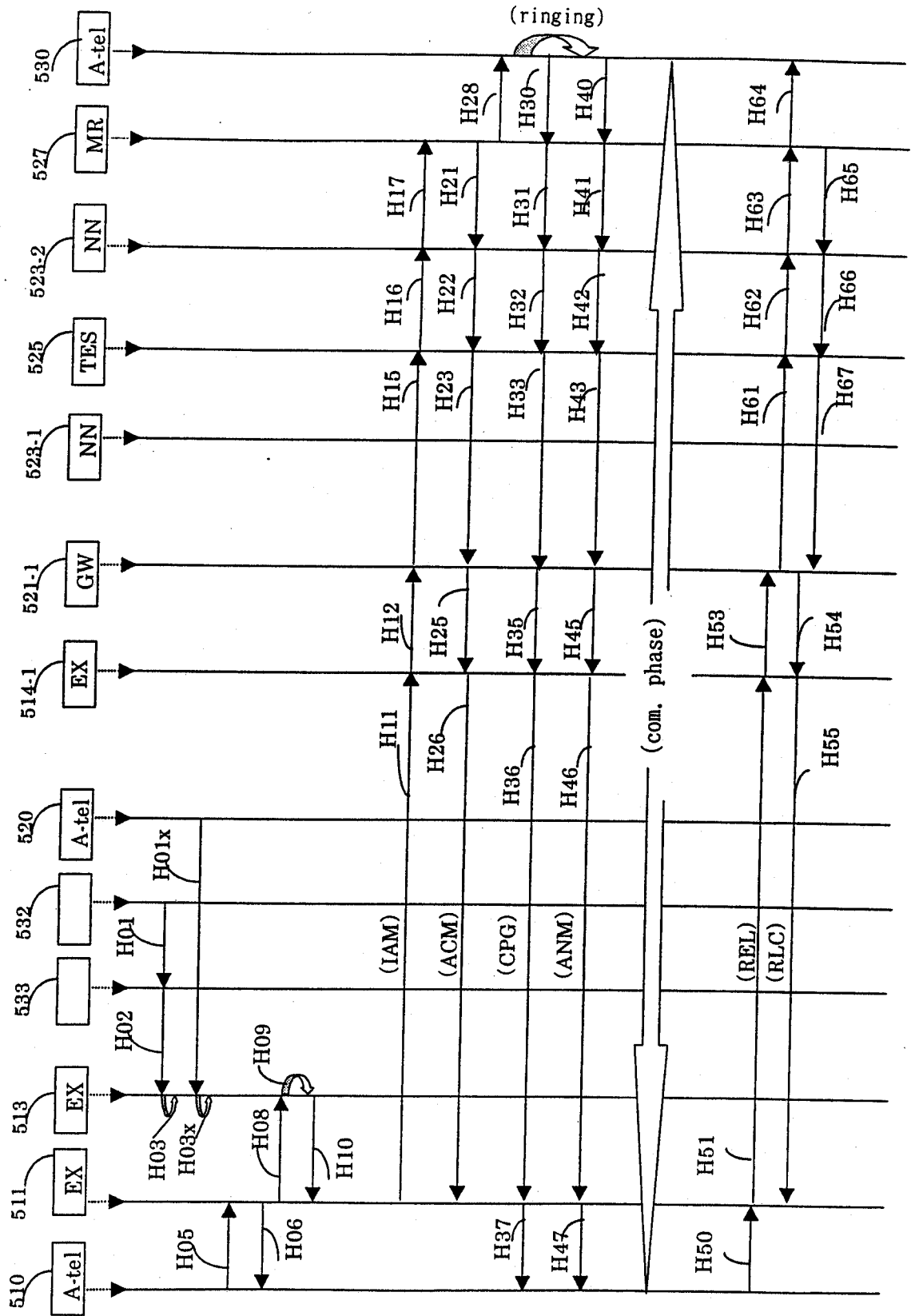
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FIG. 198



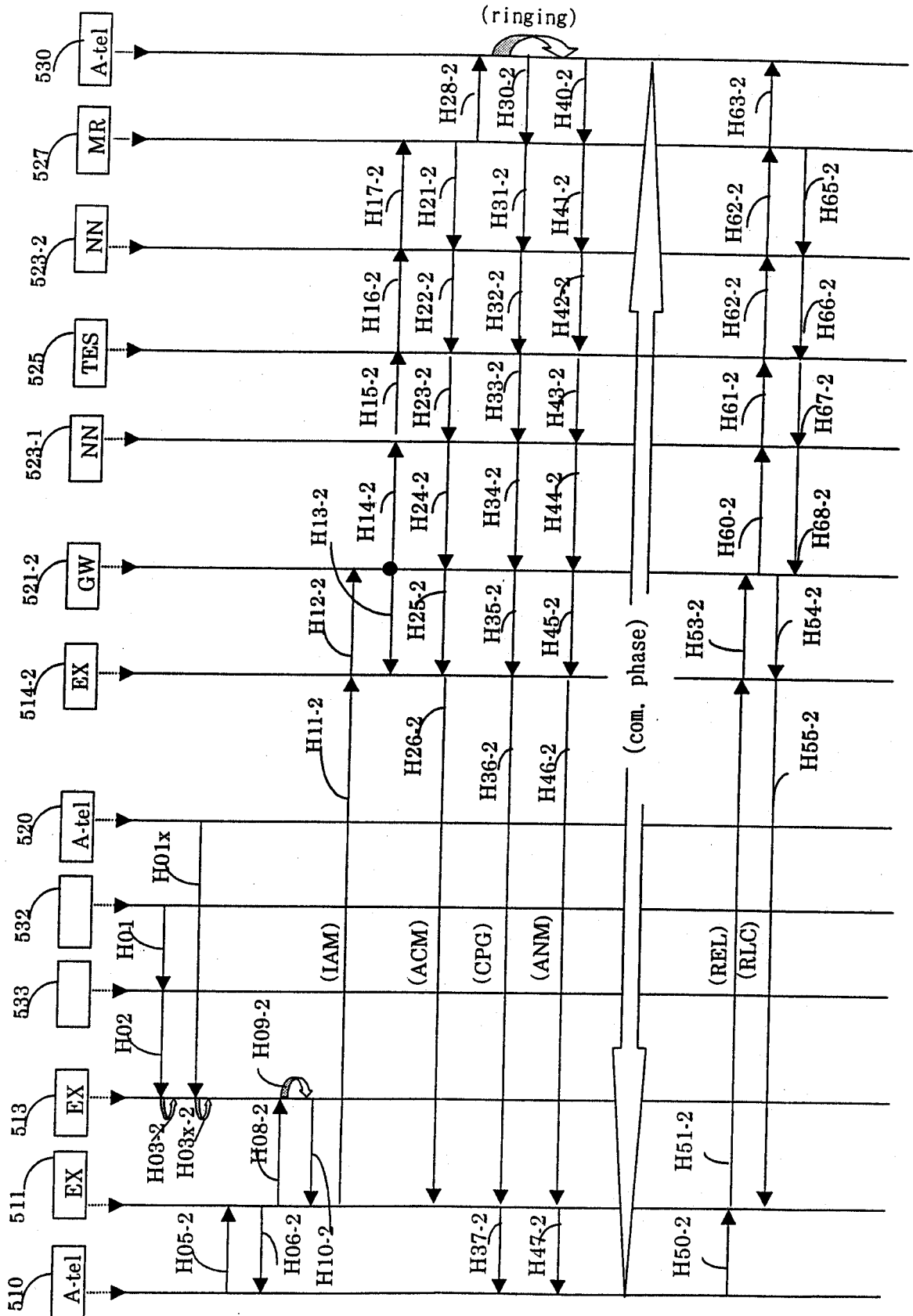
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FIG. 199



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FIG.200



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FIG. 201

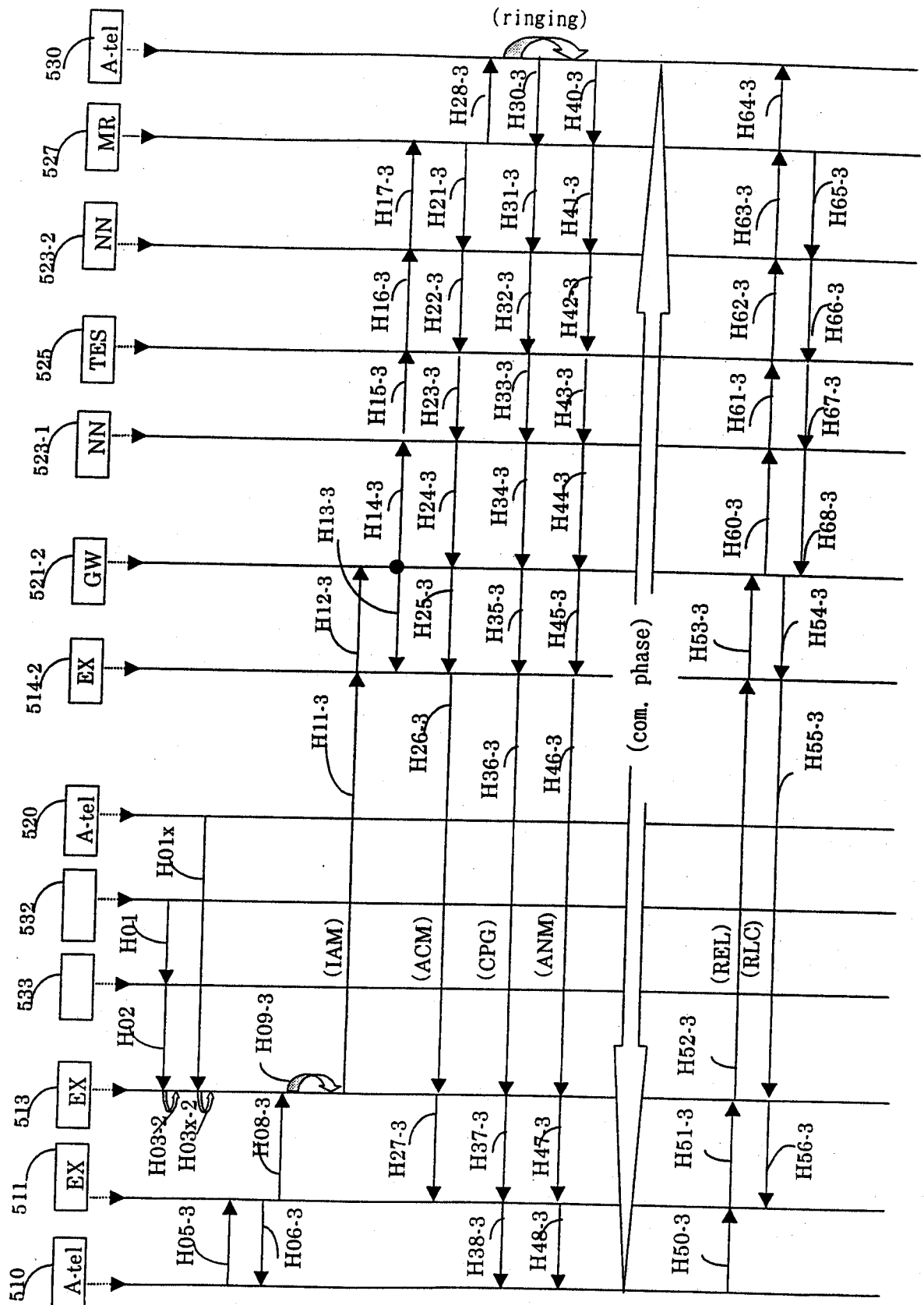
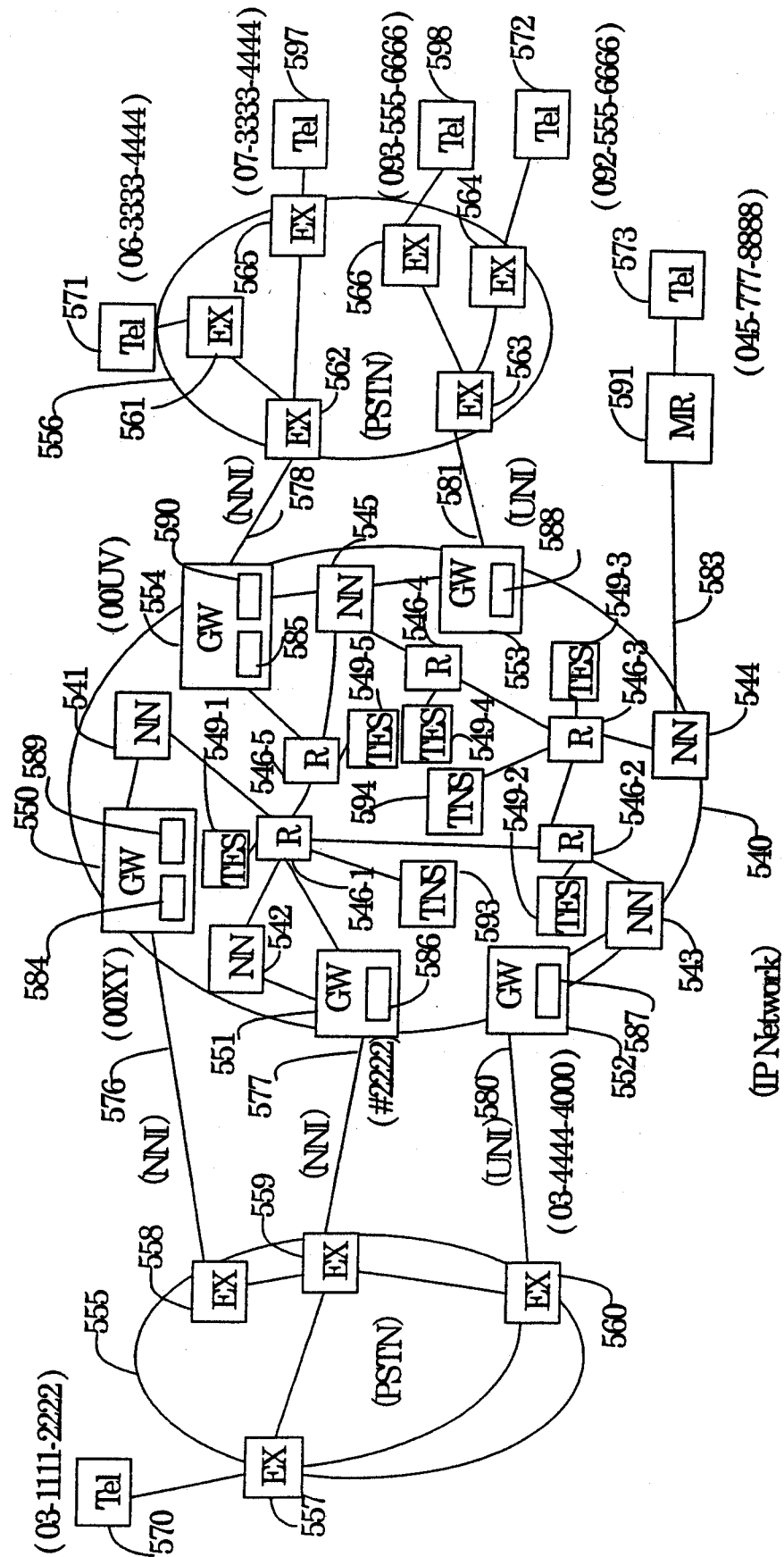


FIG. 202



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FIG.203

584

Range of Receiver Phone No.	Division	Phone No. of Input GW	Sig. Pt. Code of Input GW
06-0000-0000~06-9999-9999	NNI		#2222
092-000-0000~092-999-9999	UNI	03-4444-4000~ 03-4444-4099	
045-777-8880~045-777-8890	UNI	03-4444-4000~ 03-4444-4099	
07-0000-0000~07-9999-9999	UNI	03-4444-4000~ 03-4444-4099	
093-000-0000~093-999-9999	NNI		#2222
..		..	..

hex-decimal

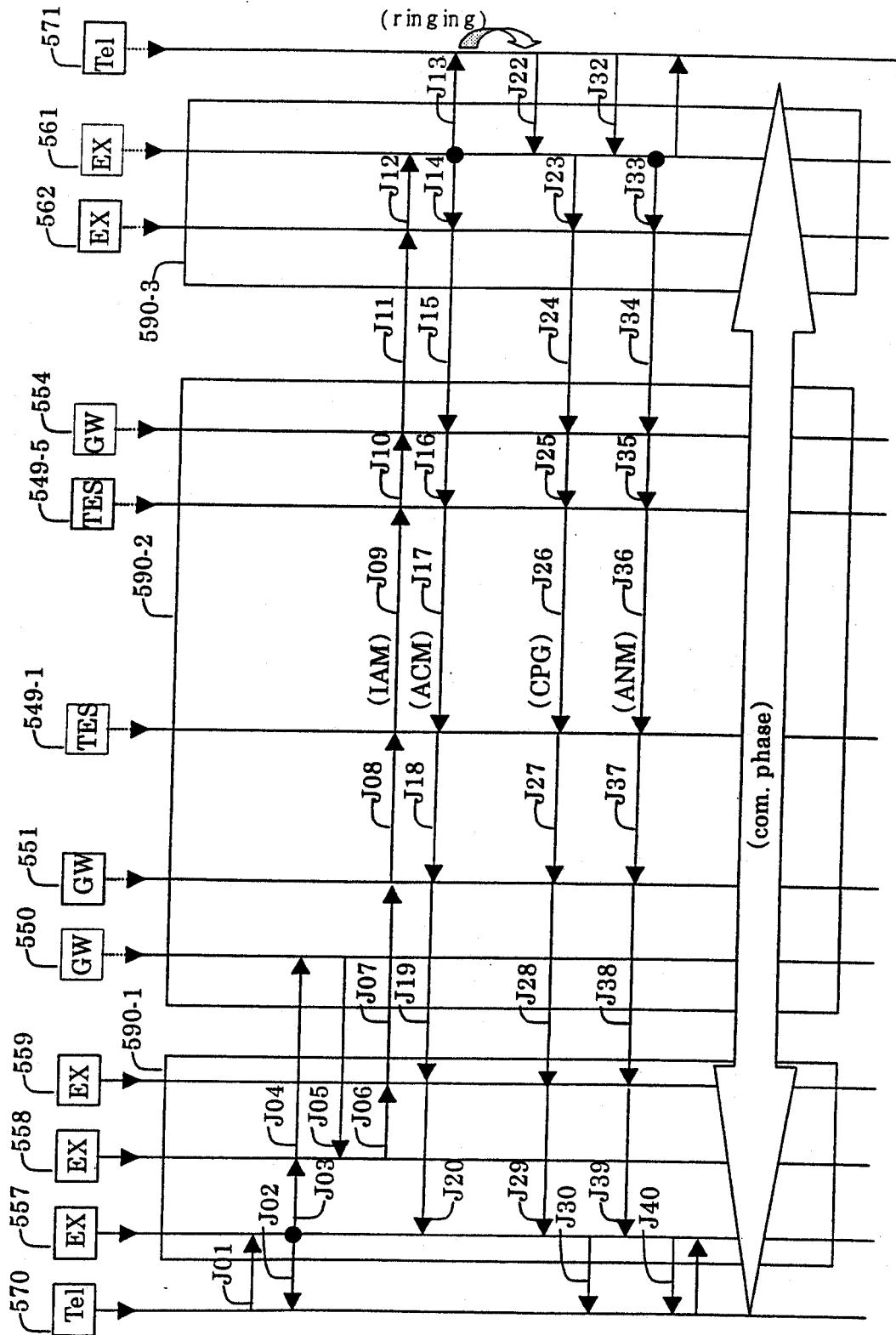
FIG.204

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Range of Sender Phone No.	Information of Output Line (IP Add. Range of Output GW/MR)
06-0000-0000~06-9999-9999	10.240.240.1~10.240.240.255
092-000-0000~092-999-9999	10.240.241.1~10.240.241.31
045-777-8880~045-777-8890	10.241.1.1 ~ 10.241.1.3
07-0000-0000~07-9999-9999	10.240.240.1~10.240.240.255
093-000-0000~093-999-9999	10.240.241.1~10.240.241.31
..	..

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FIG.205



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FIG.206

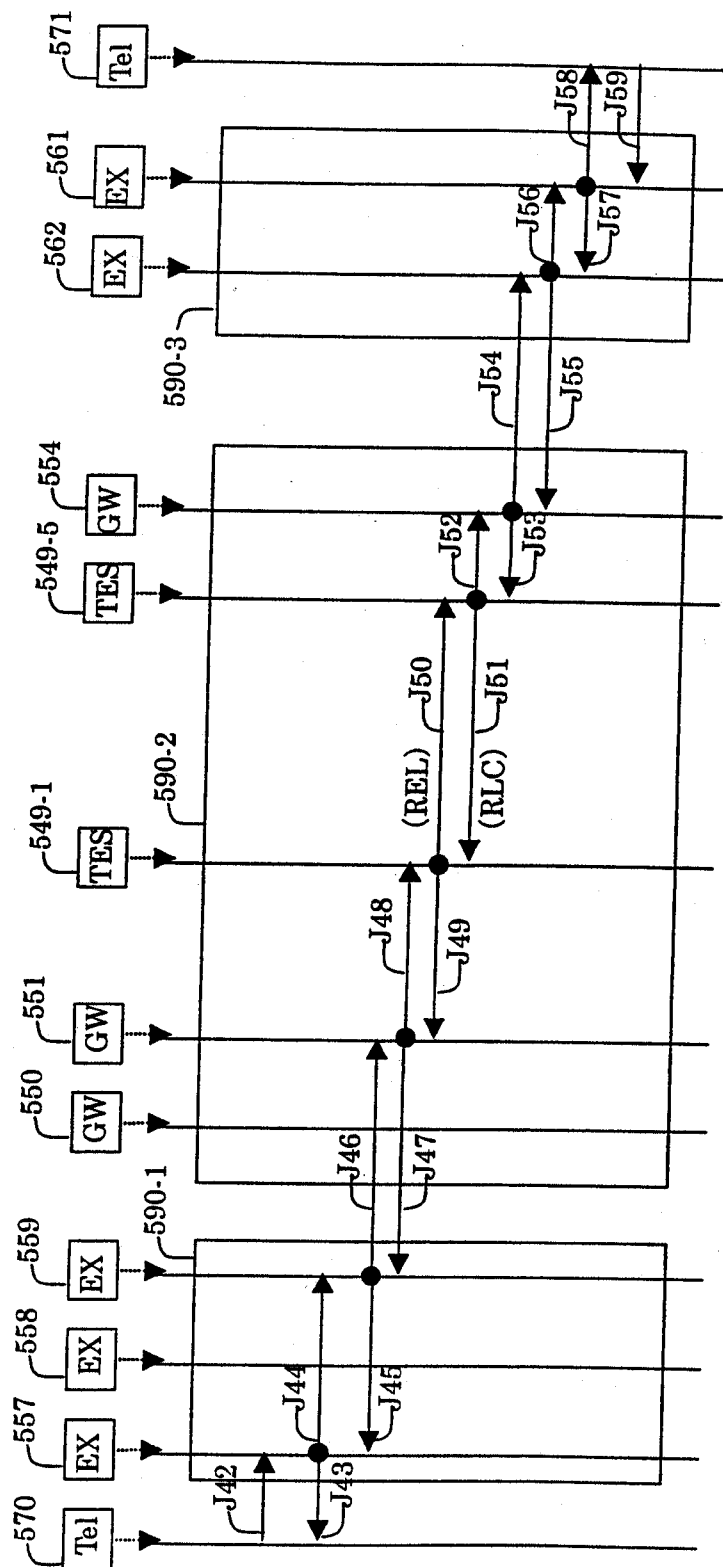
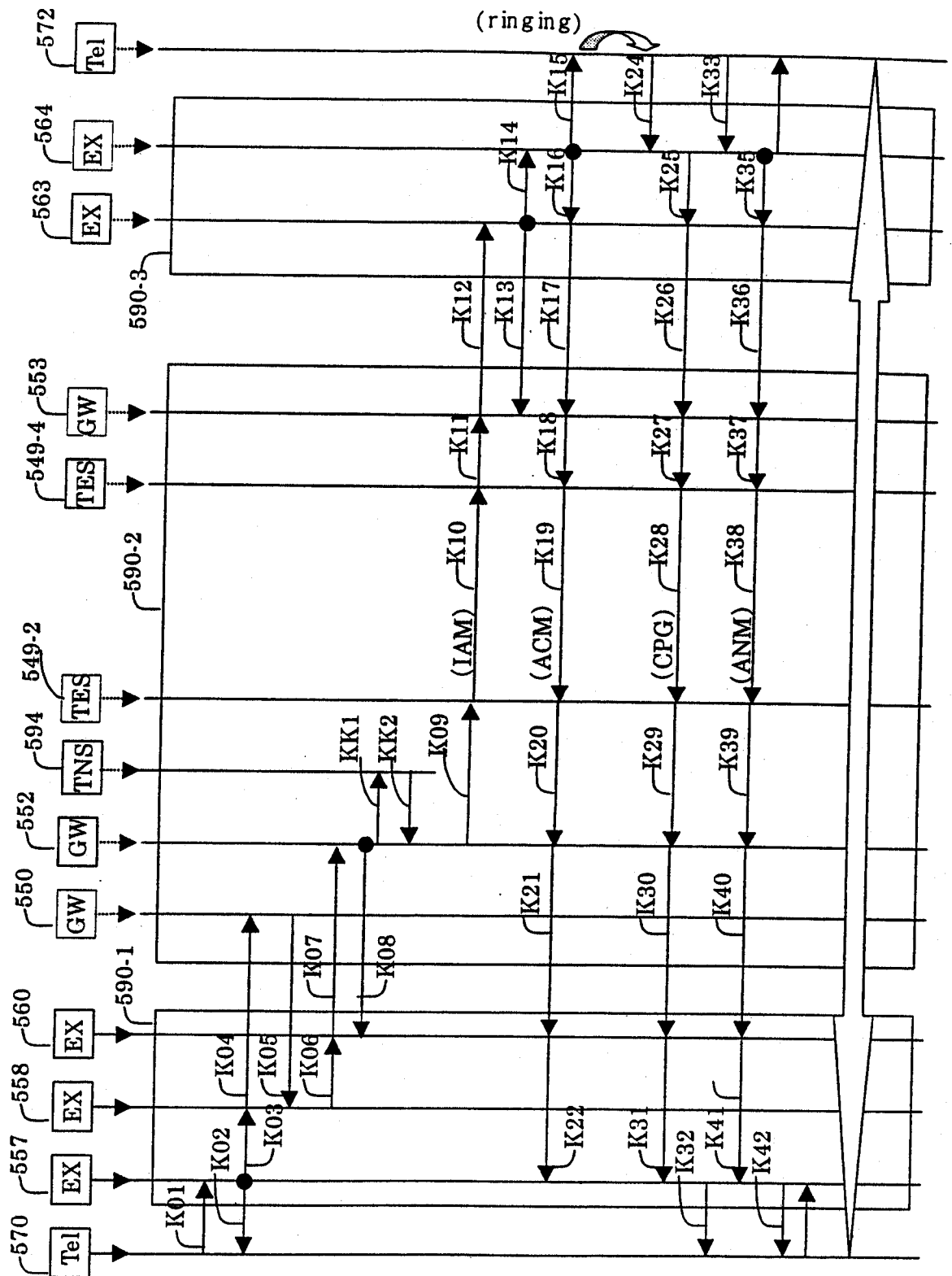


FIG.207



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FIG. 208

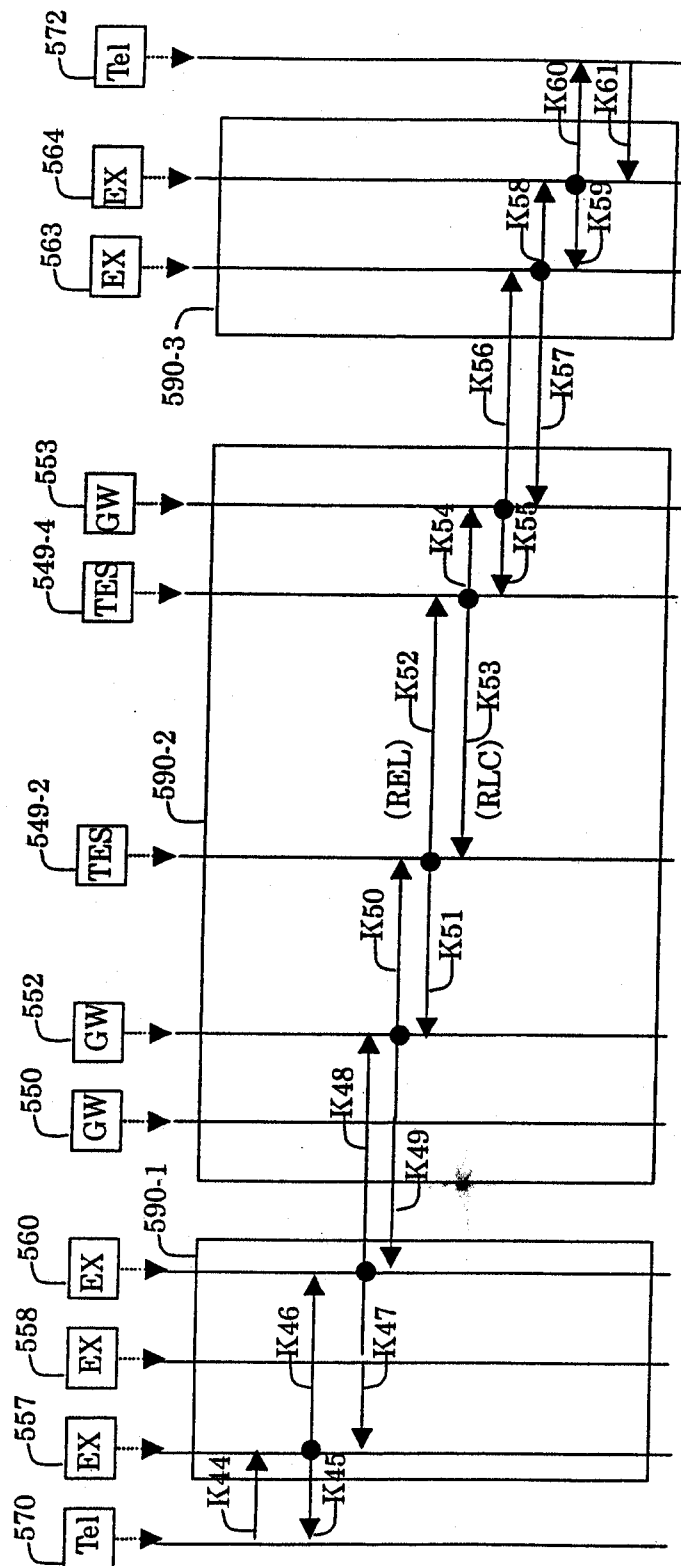


FIG. 209

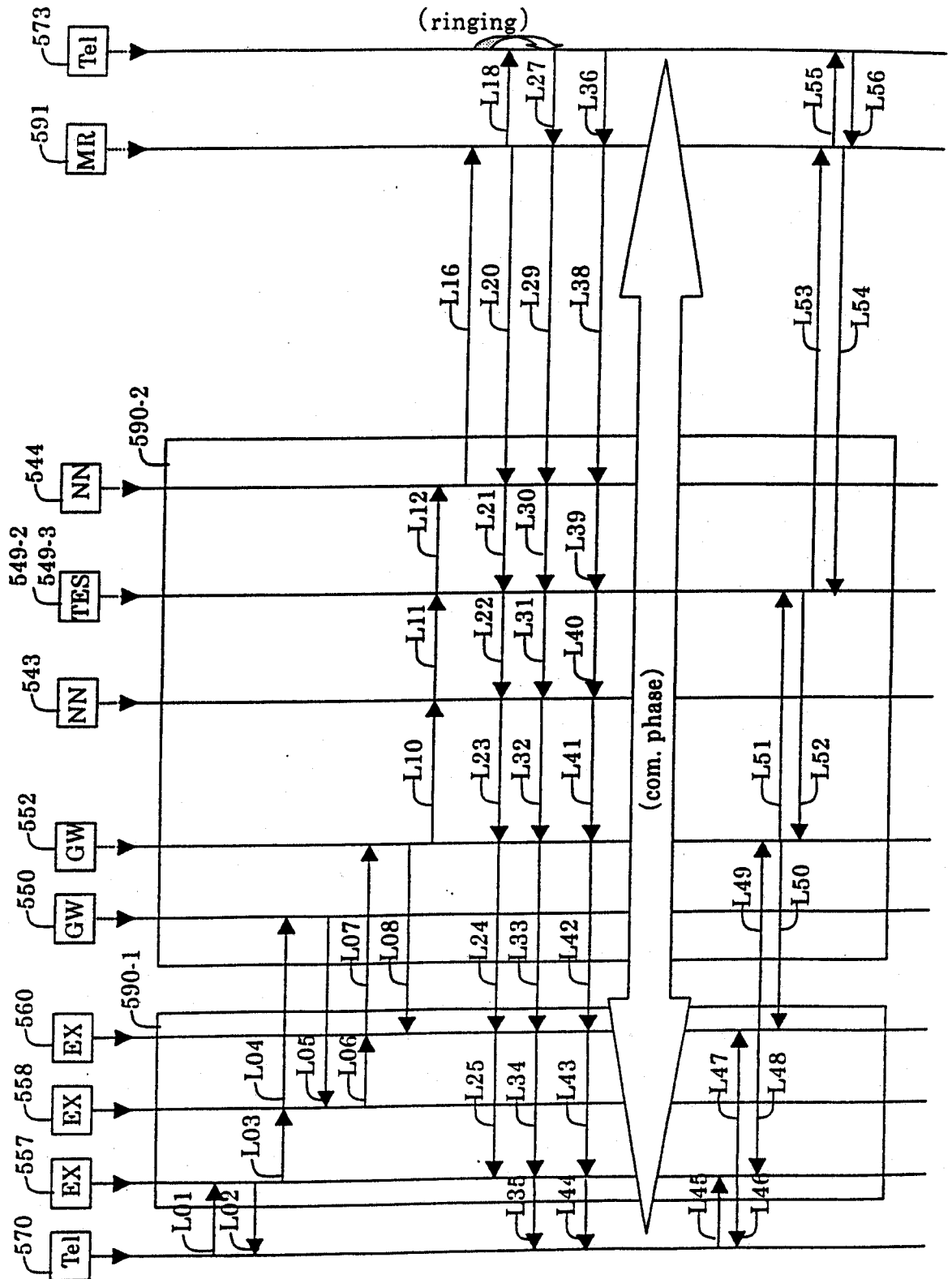
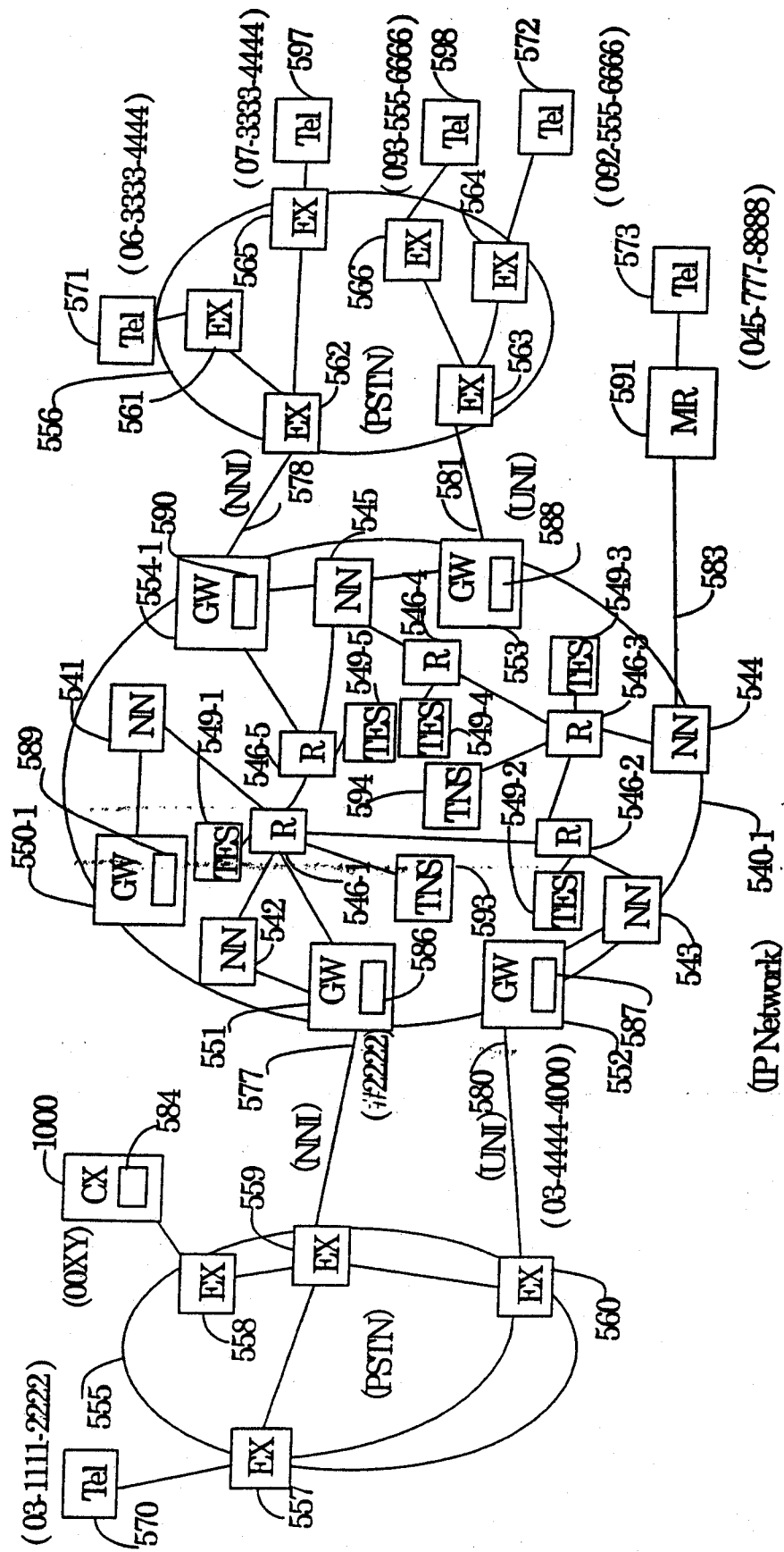
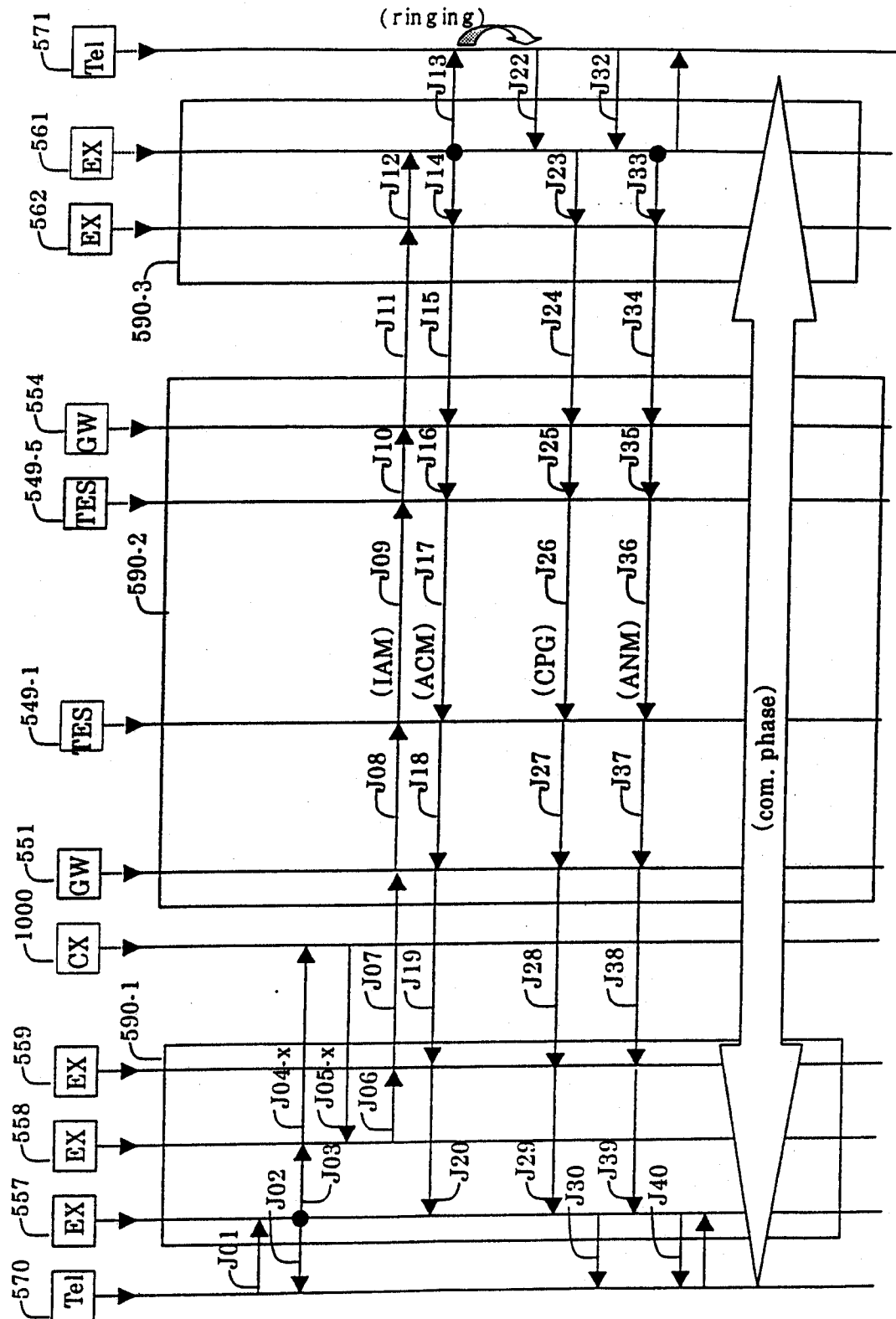


FIG. 210



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FIG.211



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FIG.212

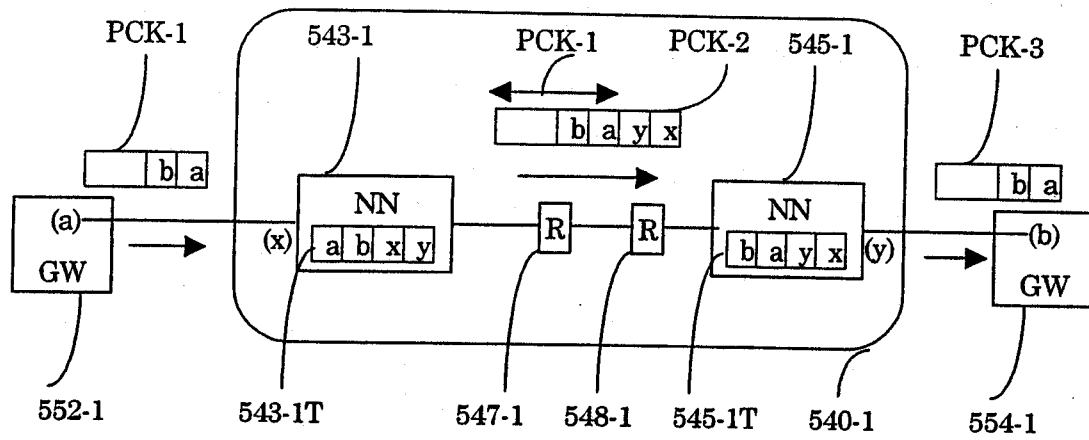
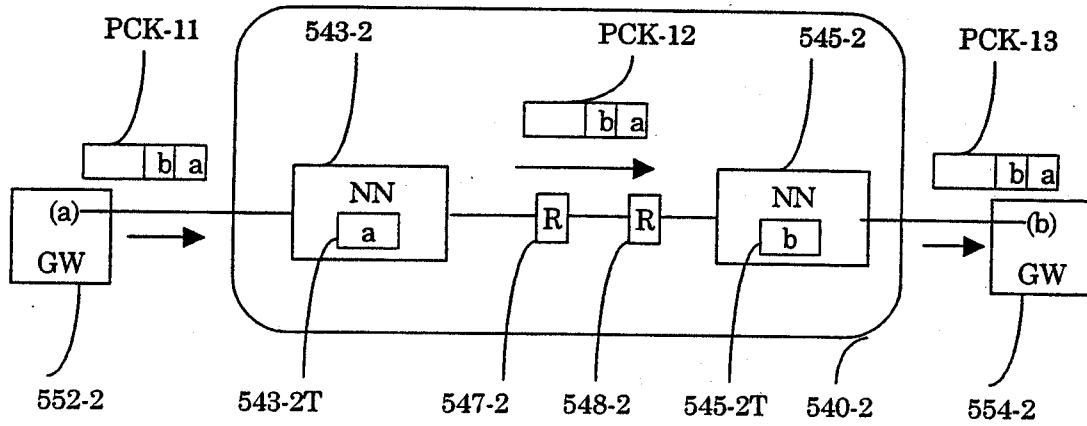


FIG.213



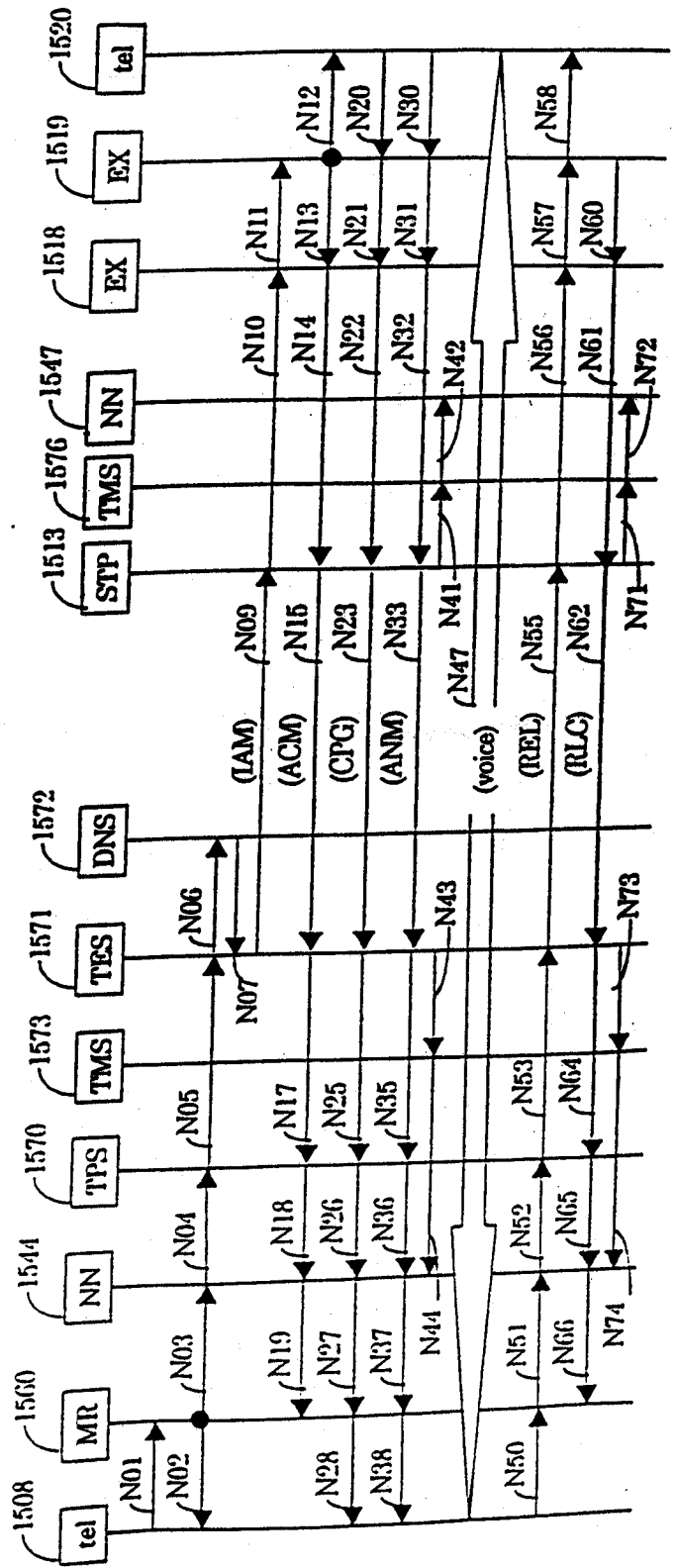
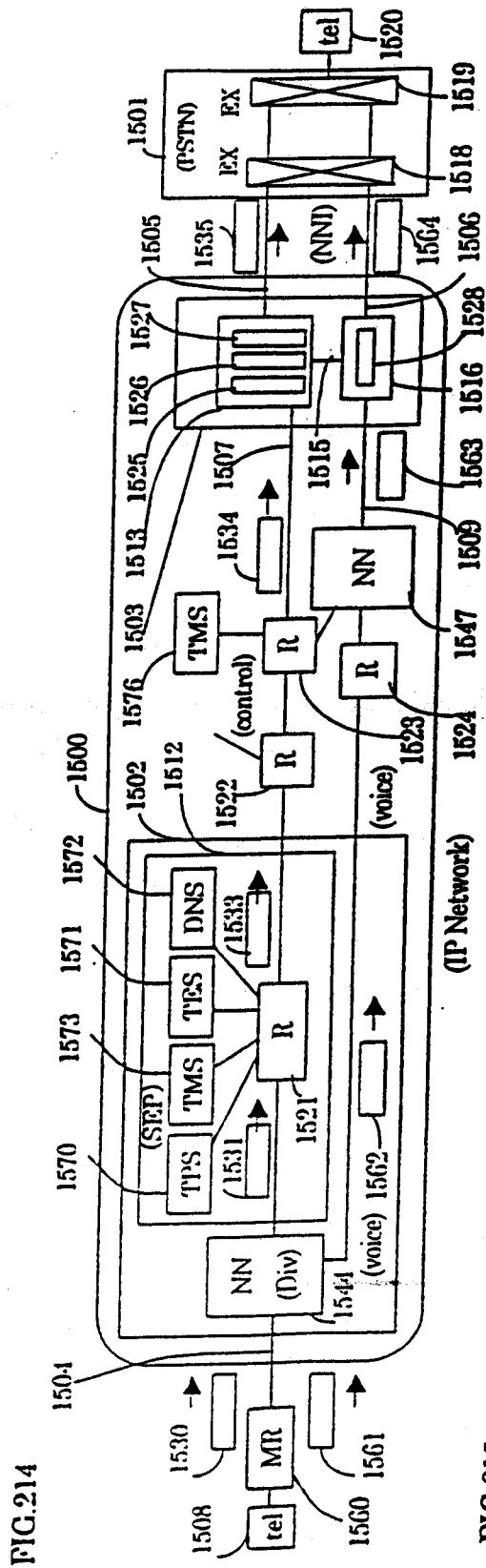


FIG.216

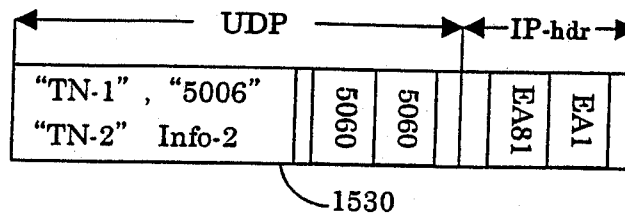


FIG.217

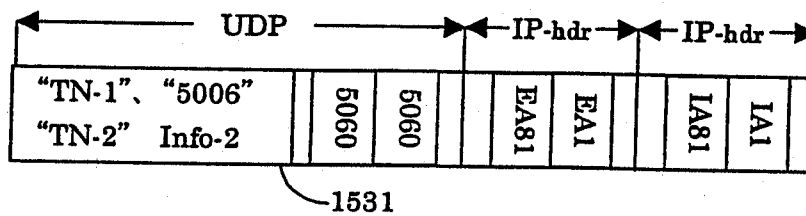


FIG.218

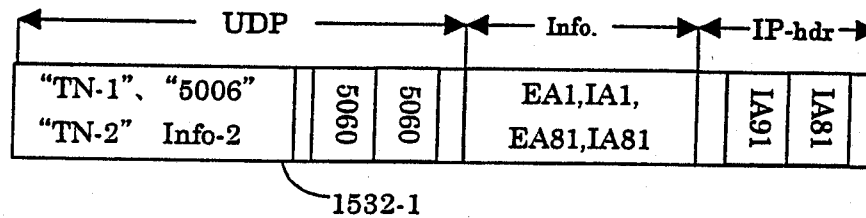


FIG.219

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	Voice Port No.	TPS Address	Start Time	End Time
IA91		IAM	TN-1 TN-2	EA1,IA1	5006	EA81,IA81	St2	
	..	..	..	..	..		..	..

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FIG.220

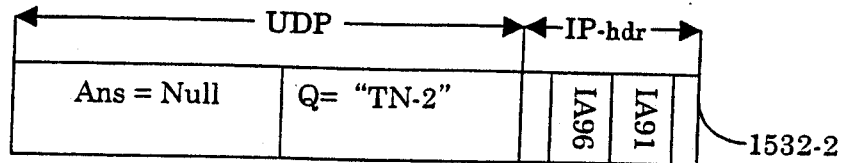


FIG.221

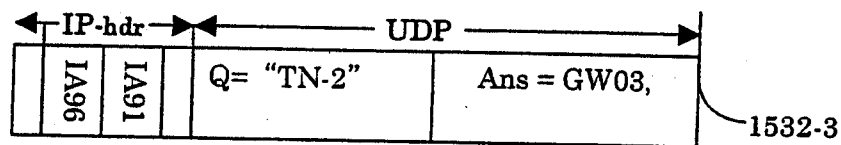


FIG.222

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	Voice Port No.	TPS Address	Start Time	End Time
IA91 GW03	CIC- 2	IAM	TN-1 TN-2	EA1,IA1	5006	EA81,IA81	St2	
	..	..	..	..	..		..	..

FIG.223

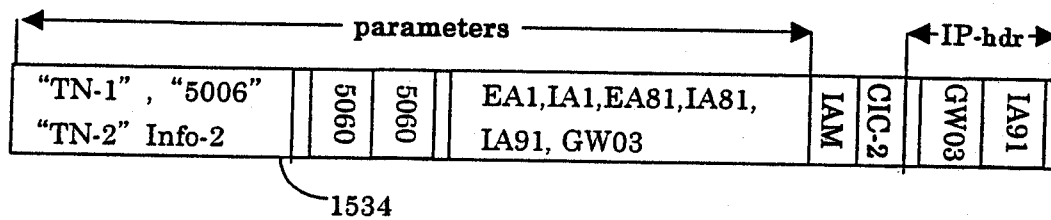


FIG.224

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	Voice Port No.	TPS Address	Start Time	End Time
IA91 GW03	CIC-2	IAM	TN-1 TN-2	EA1,IA1	5006	EA81,IA81	St3	
	..	..	..	..	..		..	..

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FIG.225

Range of Receiver Phone No.	Sig. Pt. Code
02-0000-0000~06-9999-9999	#1112
09-0000-0000~09-9999-9999	#1119
(default)	#1111

hex-decimal

FIG.226

No.	PSTN1501				IPnet1500			MP-id
1	PC-3	PC-19	SLS-3	CIC-3	GW03	IA91	CIC-2	MP-7
2								

FIG.227

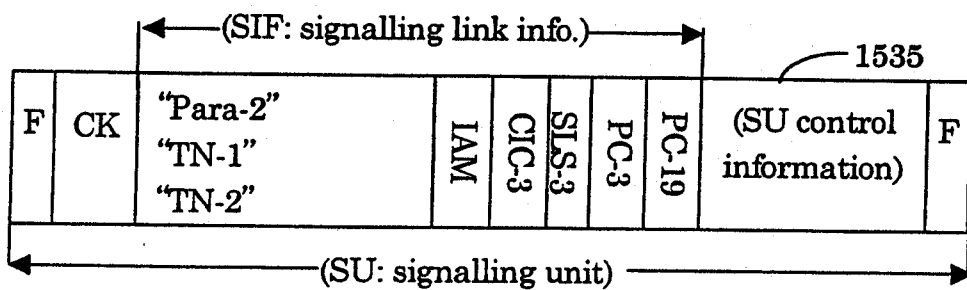


FIG.228

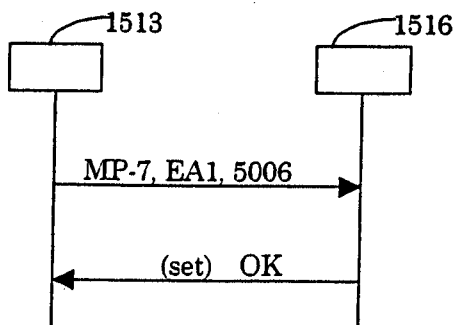


FIG.229

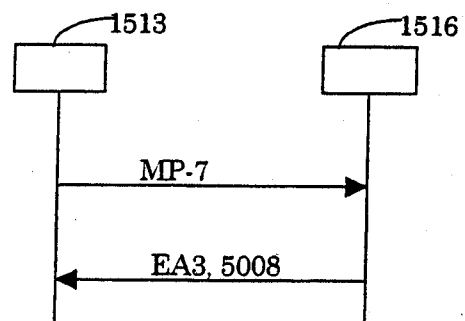


FIG.230

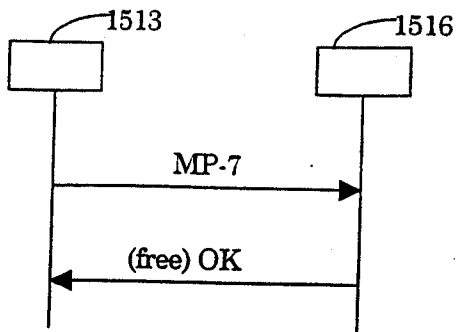


FIG.231

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
Null	—	—	—	—	—	—
..	..	..	..	..	..	..

Fig.232

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-7			EA1	5006	CH-1	
..	..	..	..	..	..	..

Fig.233

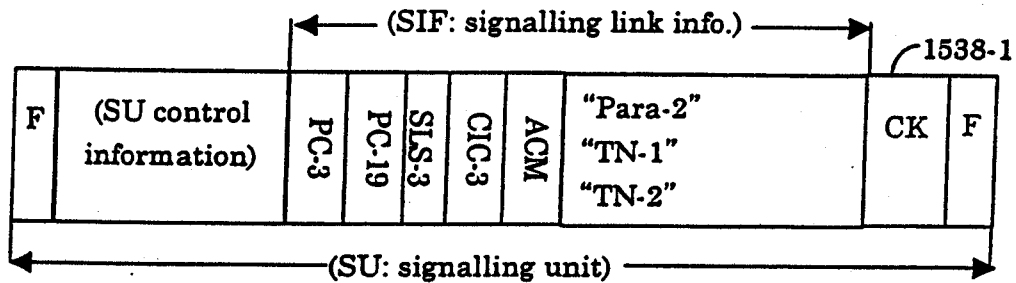
MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-7	EA3	5008	EA1	5006	CH-1	CH-2
..	..	..	..	..	..	..

FIG.234

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End Time
IA91 GW03	CIC-2	IAM	TN-1 TN-2	EA1,IA1 EA3,IA3	5006 5008	EA81,IA81	St3	
	..	..	..	..	..		..	..

1513-2

FIG.235



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FIG.236

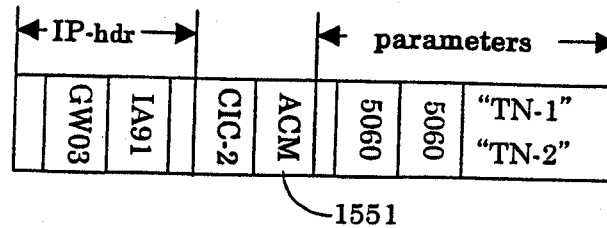


FIG.237

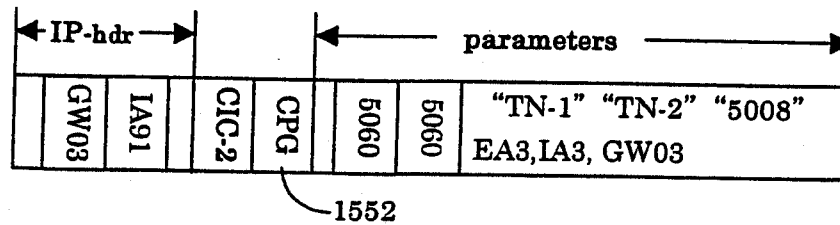


FIG.238

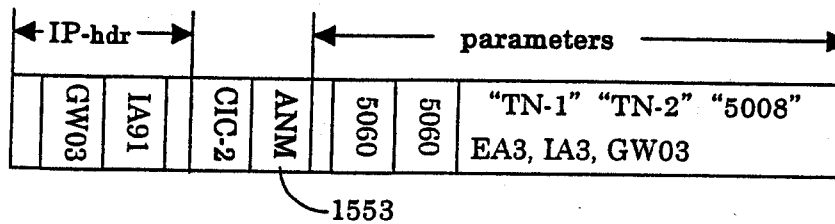


FIG.239

1513-3								
Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End Time
IA91 GW03	CIC-2	ANM	TN-1 TN-2	EA1,IA1 EA3,IA3	5006 5008	EA81,IA81	St3	
	..	..	..	..	..		..	..

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FIG.240

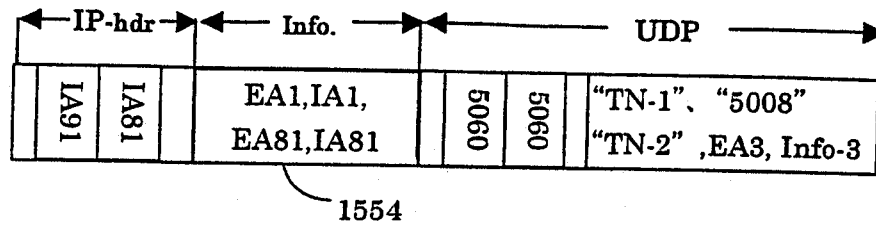


FIG.241

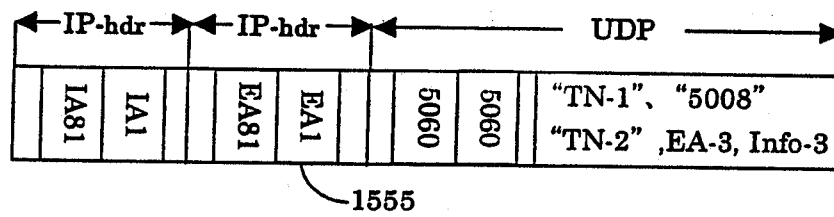


FIG.242

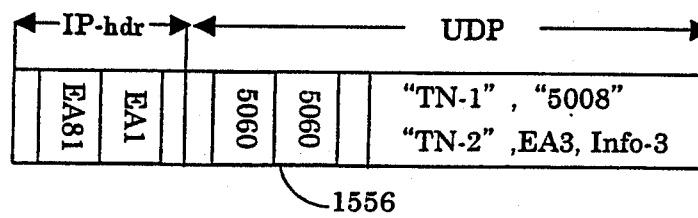


FIG.243

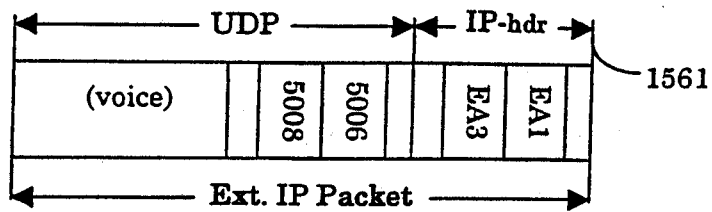
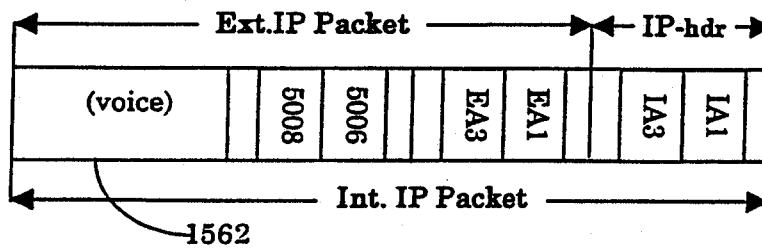


FIG.244



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FIG.245

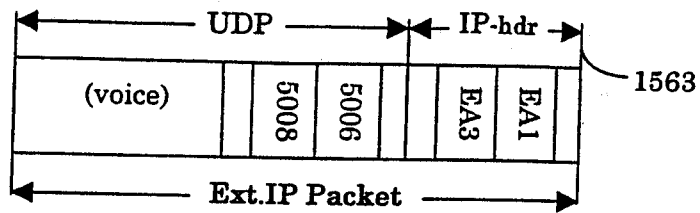


FIG.246

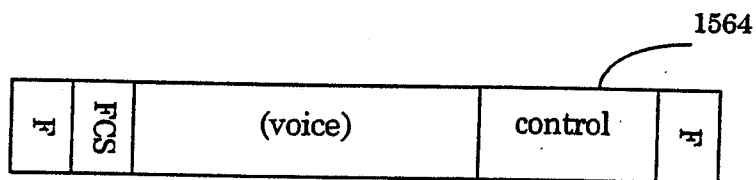


FIG.247

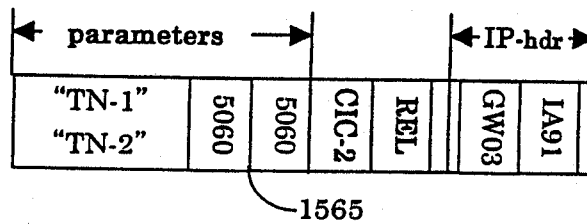


FIG.248

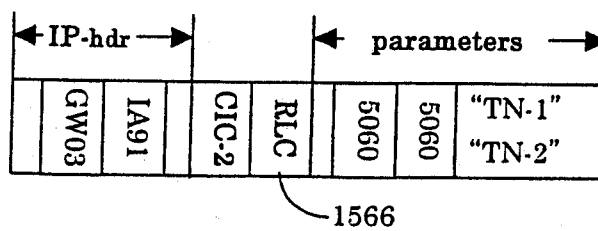


FIG. 249

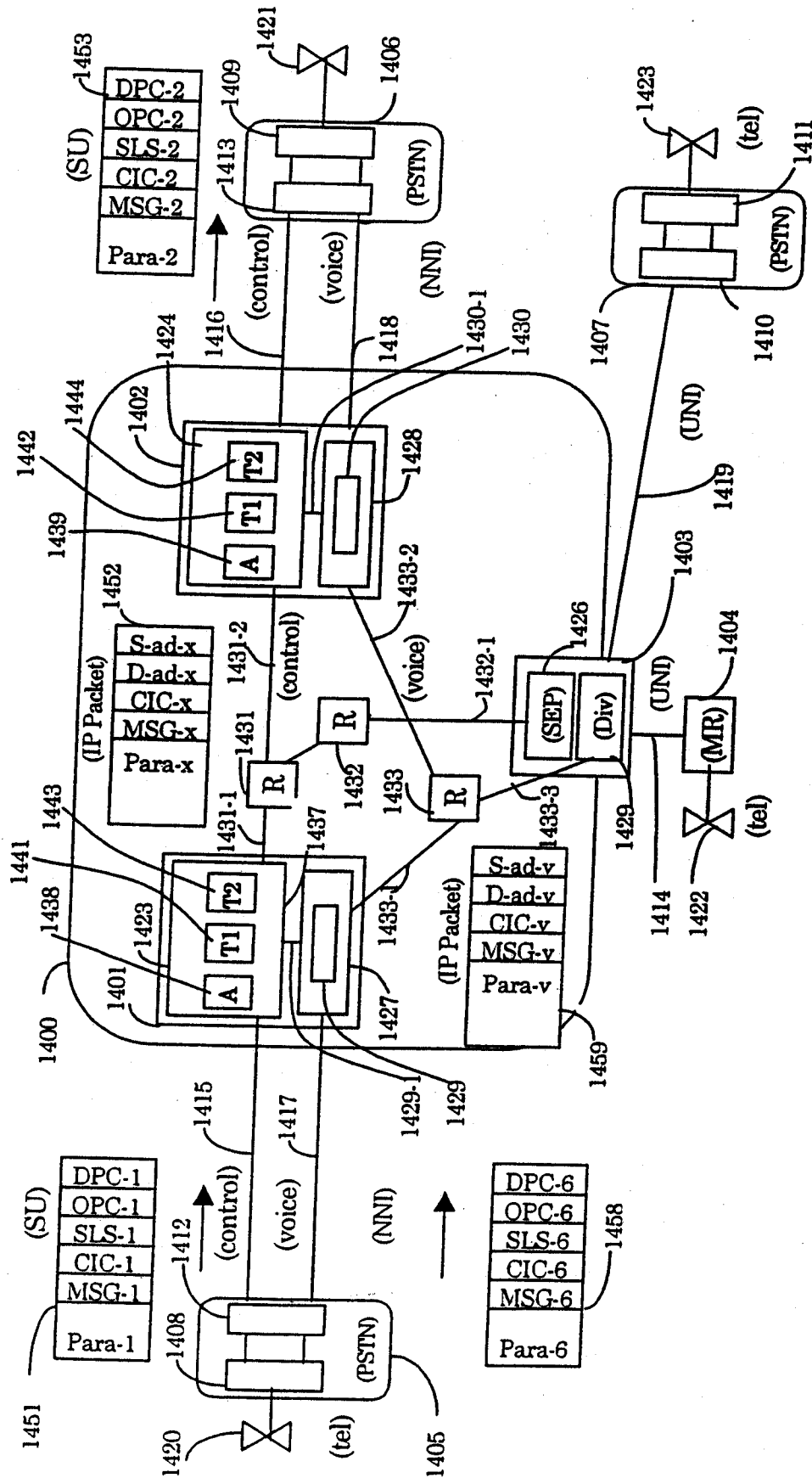


FIG. 250

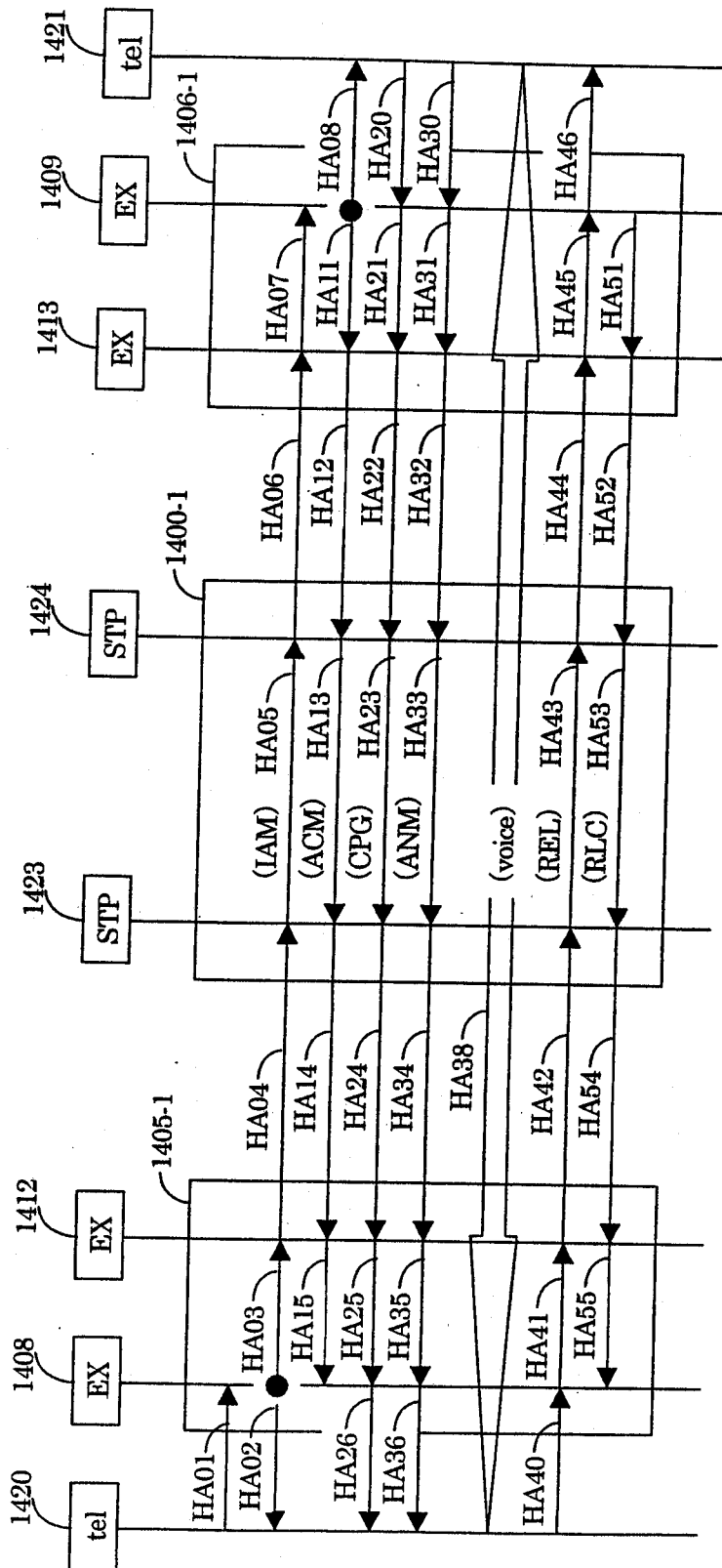


FIG.251

1441-1

Range of Receiver Phone No.	Range of IP Address
06-0000-0000~06-9999-9999	10.240.240.1~10.240.240.2
092-000-0000~092-999-9999	10.240.241.1~10.240.241.1
045-777-8880~045-777-8890	10.241.1.1 ~ 10.241.1.3
(default)	10.242.1.1

FIG.252

1441-2

Range of Receiver Phone No.	Sig. Pt. Code
06-0000-0000~06-9999-9999	#1111
092-000-0000~092-999-9999	#1122
045-777-8880~045-777-8890	#3344
(default)	#1113

hex-decimal

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FIG.253

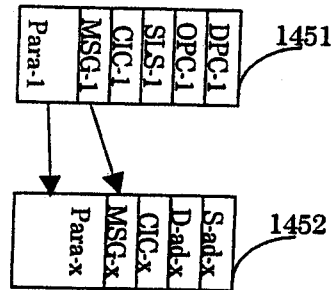


FIG.254

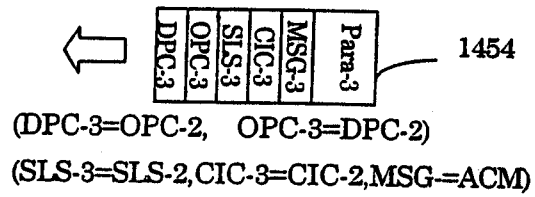


FIG.255

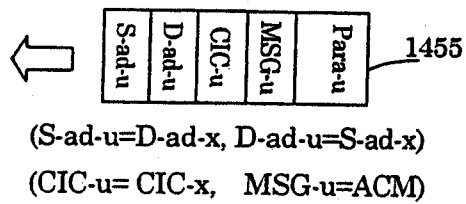


FIG.256

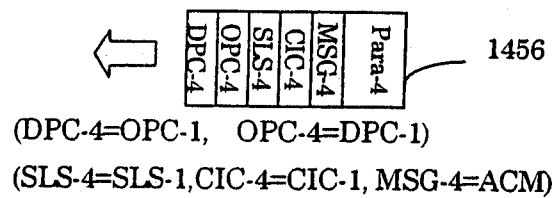


FIG.257

1423-1

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End time
GW05	CIC-2	IAM	TN-1 TN-2	EA5,IA5	5010		St5	
	..	..	..	..	..		..	..

FIG.258

1424-1

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End Time
GW06 GW05	CIC-2	ANM	TN-1 TN-2	EA5,IA5	5010		St6	
	..	..	..	..	..		..	..

FIG.259

1424-2

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End Time
GW06 GW05	CIC-2	CPG	TN-1 TN-2	EA6,IA6 EA5,IA5	5012 5010		St6	
	..	..	..	..	..		..	..

FIG.260

1423-2

Adr. for Call Control	CIC No.	Step	Phone No.	Address for User	User Port No.	TPS Address	Start Time	End Time
GW05 GW06	CIC-2	CPG	TN-1 TN-2	EA5,IA5 EA6,IA6	5010 5012		St5	
	..	..	..	..	..		..	..

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FIG.261

1438-1

No.	PSTN1405				IPnet1400			MP-id
1								
2								

FIG.262

1438-2

No.	PSTN1405				IPnet1400			MP-id
1	DPC-1	OPC-1	SLS-1	CIC-1	S-ad-x	D-ad-x	CIC-x	MP-8
2								

FIG.263

1439-1

No.	PSTN1406				IPnet1400			MP-id
1								
2								

FIG.264

1439-2

No.	PSTN1406				IPnet1400			MP-id
1	OPC-2	DPC-2	SLS-2	CIC-2	D-ad-x	S-ad-x	CIC-x	MP-9
2								

FIG.265

1429-1

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-8	EA5	5010			CH-1	CH-2
..	..	..	..	..	..	..

FIG.266

1430-1

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-9	EA6	5012	EA5	5010	CH-3	CH-4
..	..	..	..	..	..	..

FIG.267

1429-2

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-8	EA5	5010	EA6	5012	CH-1	CH-2
..	..	..	..	..	..	..

FIG.268

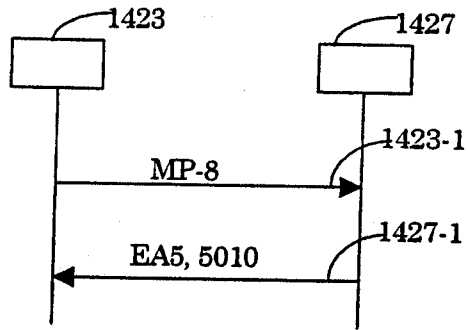


FIG.269

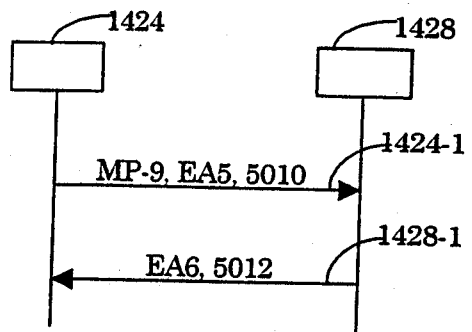


FIG.270

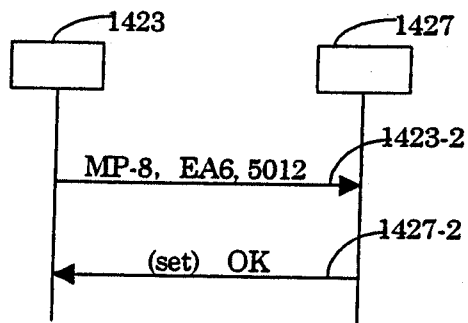


FIG.271

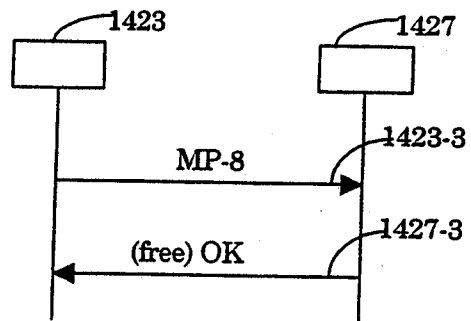
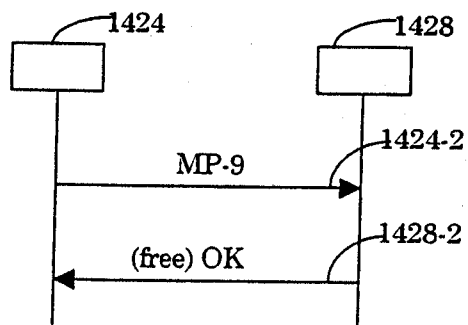
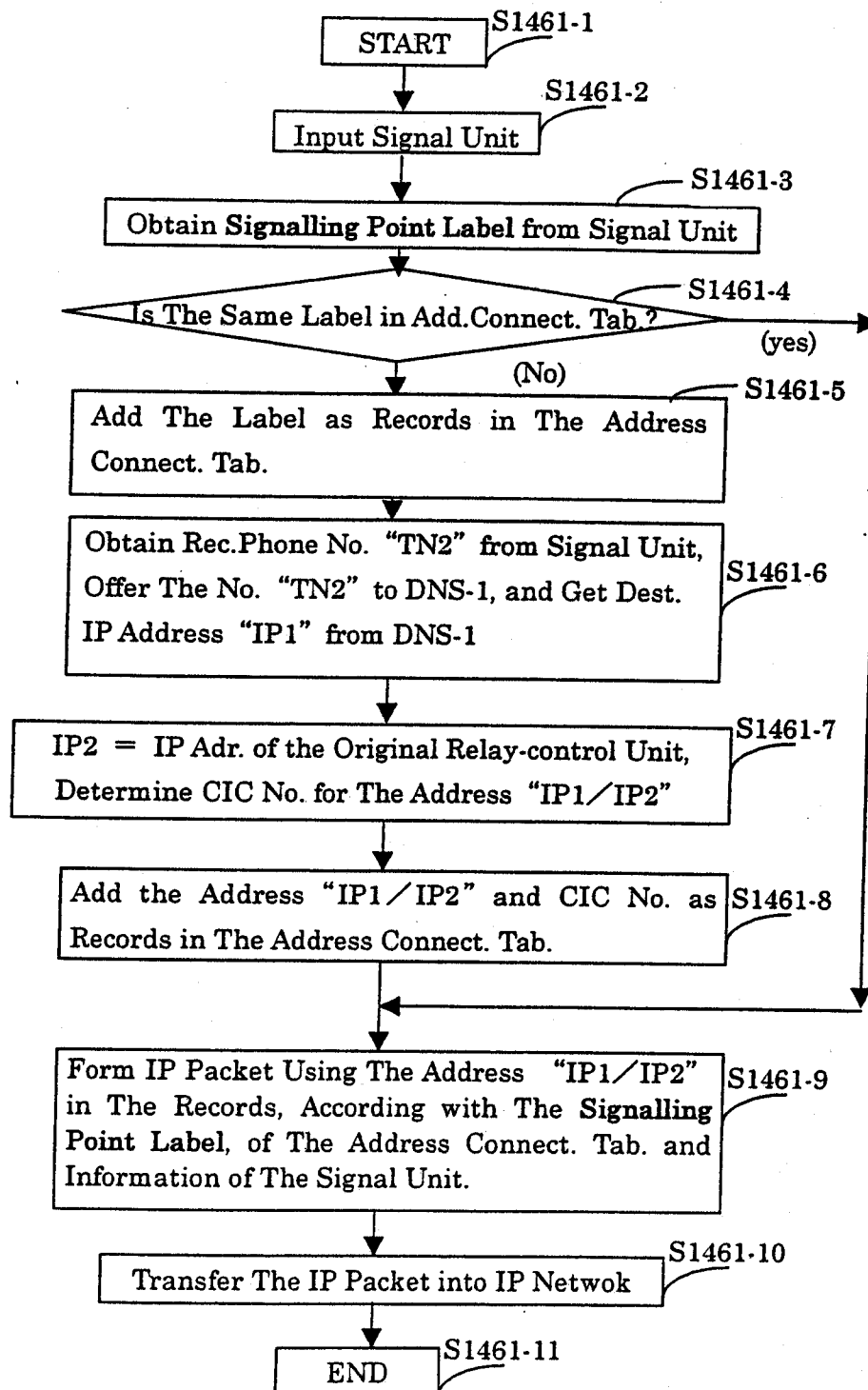


FIG.272



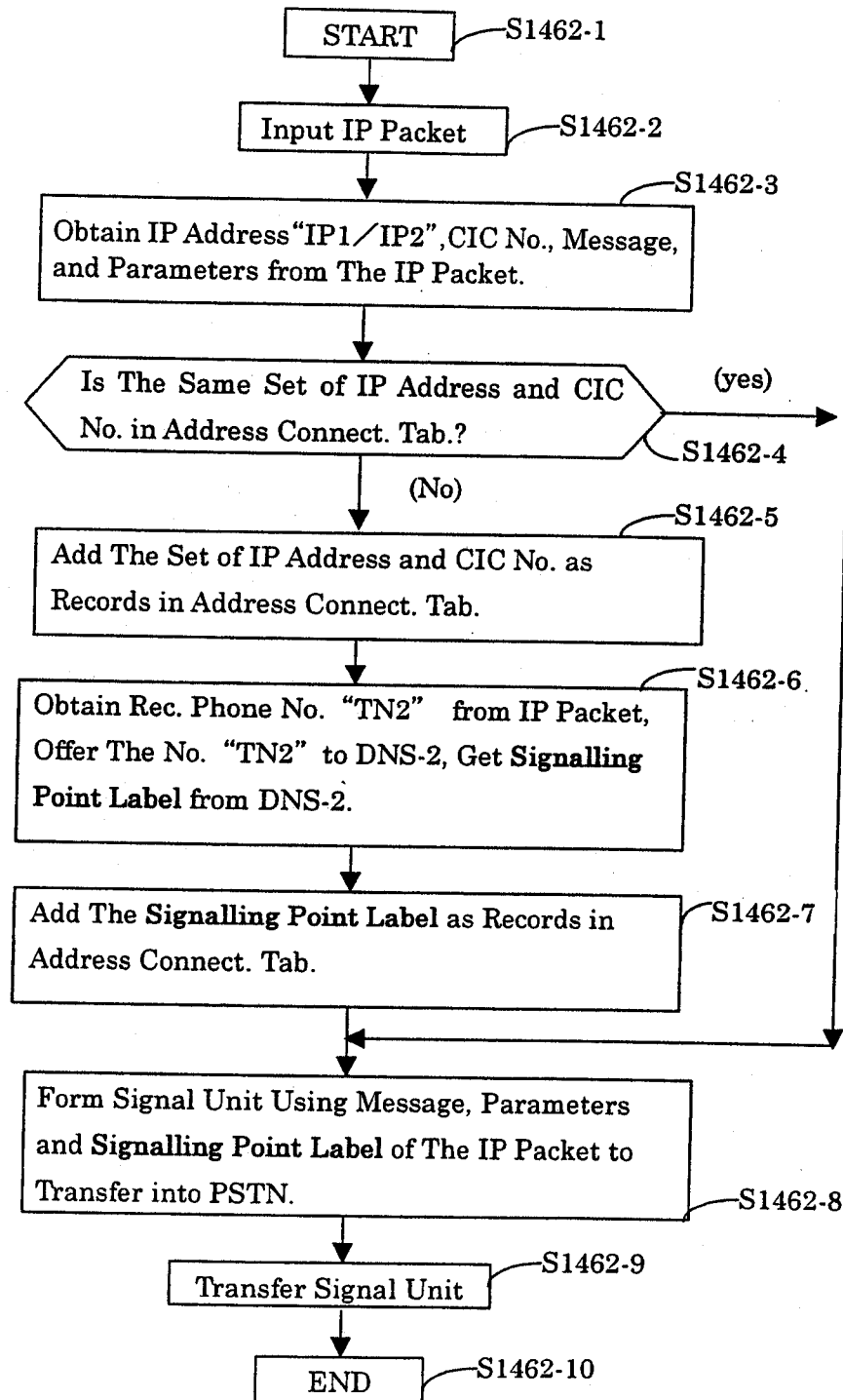
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FIG.273



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FIG.274



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FIG.275

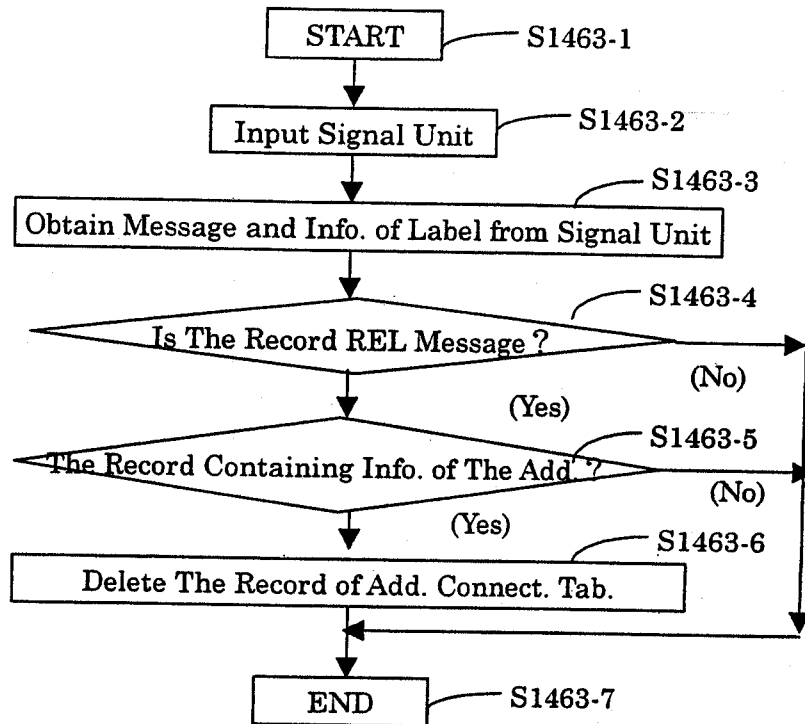


FIG.276

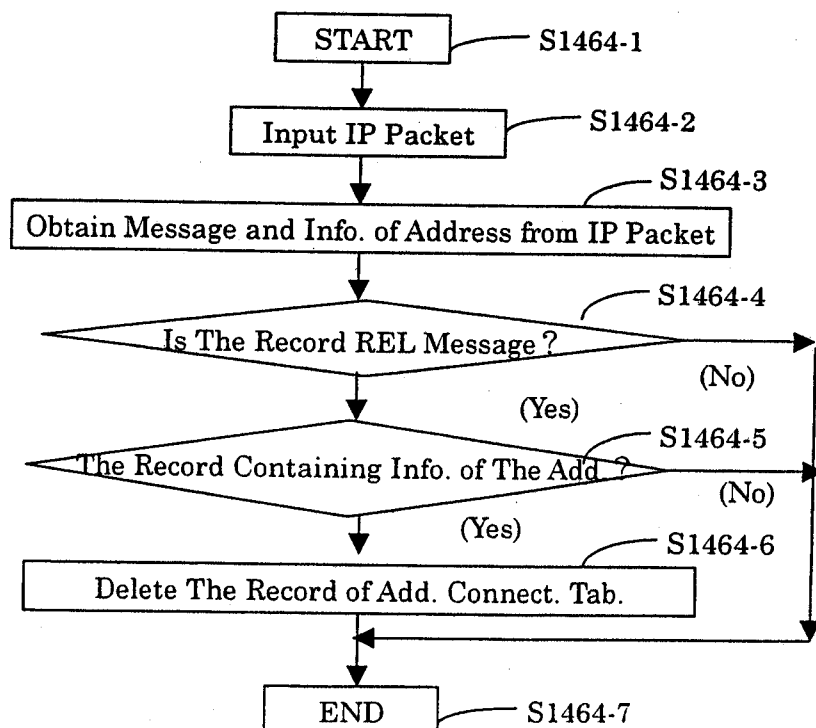


Figure 1 is a sequence diagram illustrating a communication protocol involving multiple entities and a central system (1600). The entities are represented by boxes at the top: tel (1610), MR (1660), EN (1603), TES (1671), DNS (1672), STP (1606), EX (1608), EX (1609), and tel (1611). The central system is represented by a large box labeled 1600. The diagram shows a series of messages (B01 through B66) exchanged between these entities and the central system. The messages are organized into several groups, each corresponding to a specific phase of the protocol: (IAM), (ACM), (CPG), (ANM), (voice), (REL), and (RLC). The messages are labeled with their respective sequence numbers and are connected by lines indicating the direction of communication. The diagram also includes a large diagonal line representing a transition or a break in the sequence of messages.

FIG.279

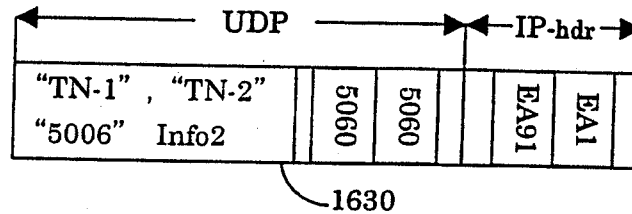


FIG.280

1620-1

Source IP address	Source Port No	Dest. IP address	Dest. Port No	Output I/F
EA 1	5060	EA91	5060	IF1612
EA 23	5060	EA91	5060	IF1612
Null				
..				

FIG.281

1671-1

Adr.for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
IA91		IAM	TN-1 TN-2	EA1	5006	St6	
	..	..	..	..	..	..	..

Diagram illustrating a packet structure:

- The packet is divided into two main sections: **UDP** and **IP-hdr**.
- The **UDP** section contains:
 - Ans = Null**
 - Q = "TN-2"**
- The **IP-hdr** section contains:
 - IA96**
 - IA91**
- A bracket on the right indicates a total size of **1632-1**.

Diagram illustrating the structure of a packet header and data:

IP-hdr		UDP	
IA96	IA91	Q= "TN-2"	Ans = GW03,

The packet is identified by the number 1632-2.

1671-2							
Adr. for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
IA91 GW03	CIC-2	IAM	TN-1 TN-2	EA1	5006	St6	
	..	..	..	..	..	..	..

parameters

IP-hdr

“TN-1”, “TN-2”

“EA1”, “5006”, Info2

5060

5060

IAM

CIC-2

IA91

GW03

1634

1605-1							
Adr. for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
IA91 GW03	CIC-2	IAM	TN-1 TN-2	EA1	5006	St7	
	..	..	..	..	..	..	..

FIG.287

1627

Range of Receiver Phone No.	Sig. Pt. Code
02-0000-0000~06-9999-9999	#1102
09-0000-0000~09-9999-9999	#1109
(default)	#1101

hex-decimal

FIG.288

1625-1

No.	PSTN1601				IPnet1600			MP-id
1	PC-3	PC-09	SLS-3	CIC-3	GW03	IA91	CIC-2	MP-7
2								

FIG.289

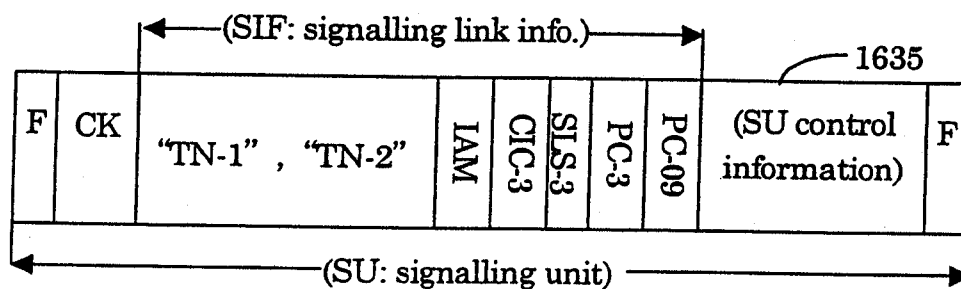


FIG.290

1628-1

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-7			EA1	5006	CH-1	
..	..	..	..	..	..	..

FIG.291

1628-2

MP-id	IP-addr-d	Port-d	IP-addr-o	Port-o	Channel-S	Channel-R
MP-7	EA7	5008	EA1	5006	CH-1	CH-2
..	..	..	..	..	..	..

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FIG.292

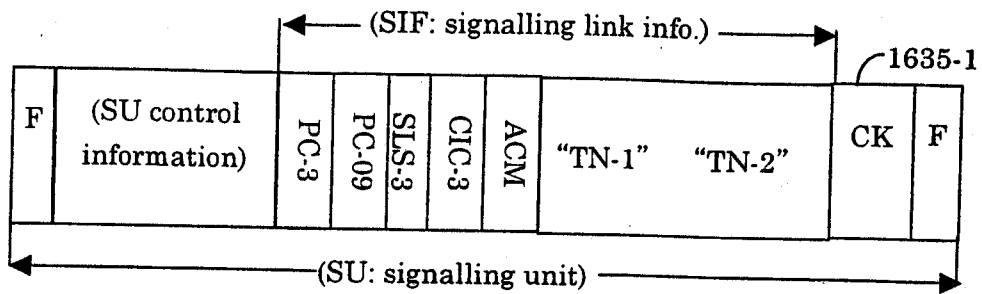


FIG.293

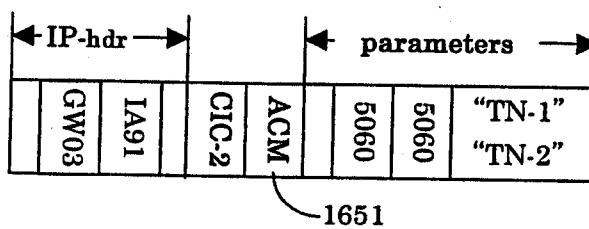


FIG.294

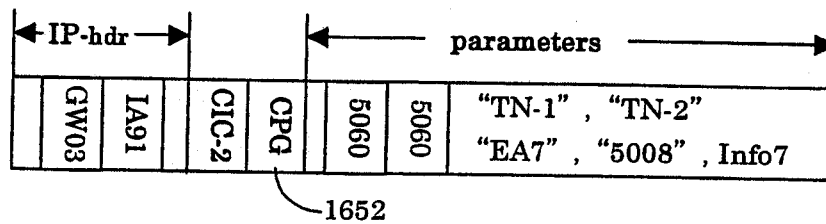


FIG.295

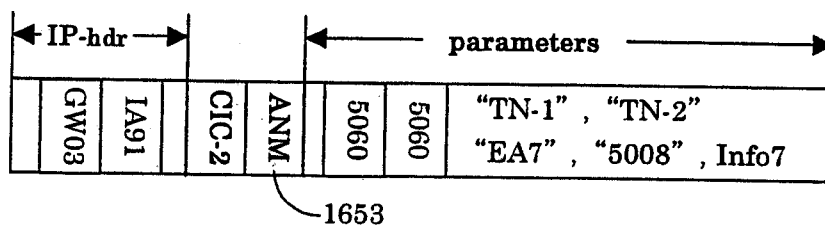


FIG.296

1605-2							
Adr. for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
IA91 GW03	CIC-2	ANM	TN-1 TN-2	EA1 EA7	5006 5008	St7	
	..	..	..	..	..	..	..

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FIG.297

Adr. for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
IA91 GW03	CIC-2	ANM	TN-1 TN-2	EA1 EA7	5006 5008	St6	
	..	..	..	..	..	..	..

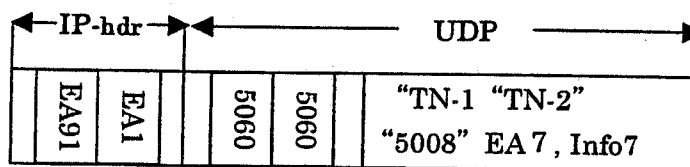
1671-3

FIG.298

Source IP address	Source Port No	Dest. IP address	Dest. Port No	Output I/F
EA1	5060	EA91	5060	IF1612
EA23	5060	EA91	5060	IF1612
EA1	5006	EA7	5008	IF1614
Null				
..				

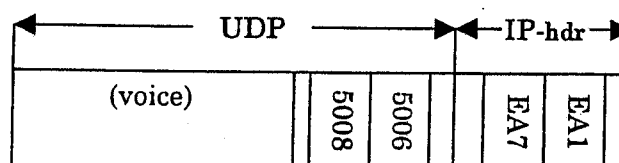
1620-2

FIG.299



1656

FIG.300



1661

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FIG.301

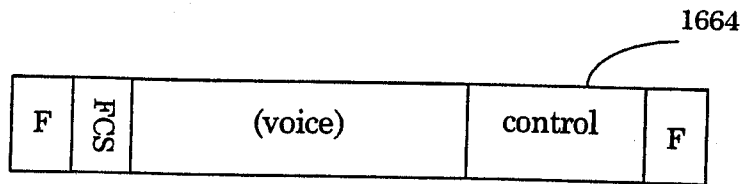


FIG.302

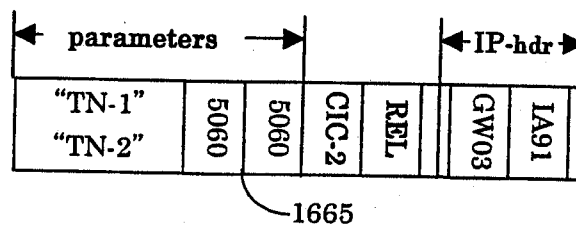


FIG.303

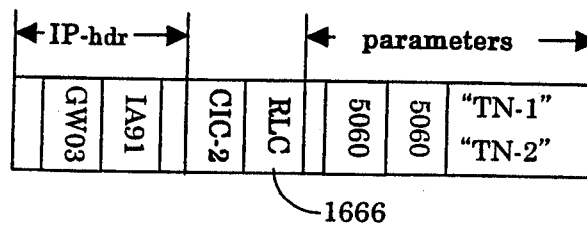


FIG.304

1620-3

Output I/F	Port No
IF1612	5060
IF1614	From 5004 to5048,
..	..

FIG.305

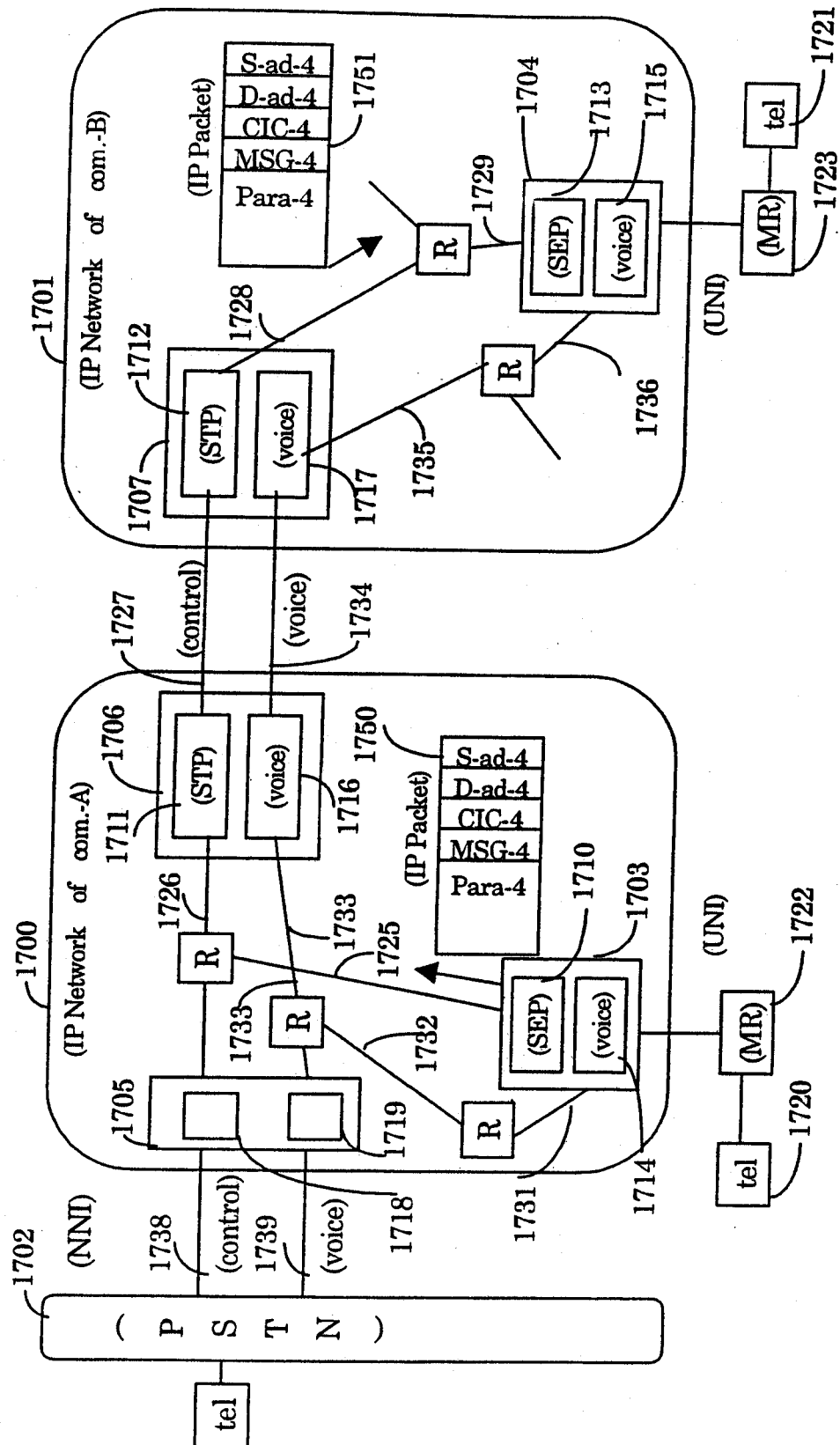


FIG. 306

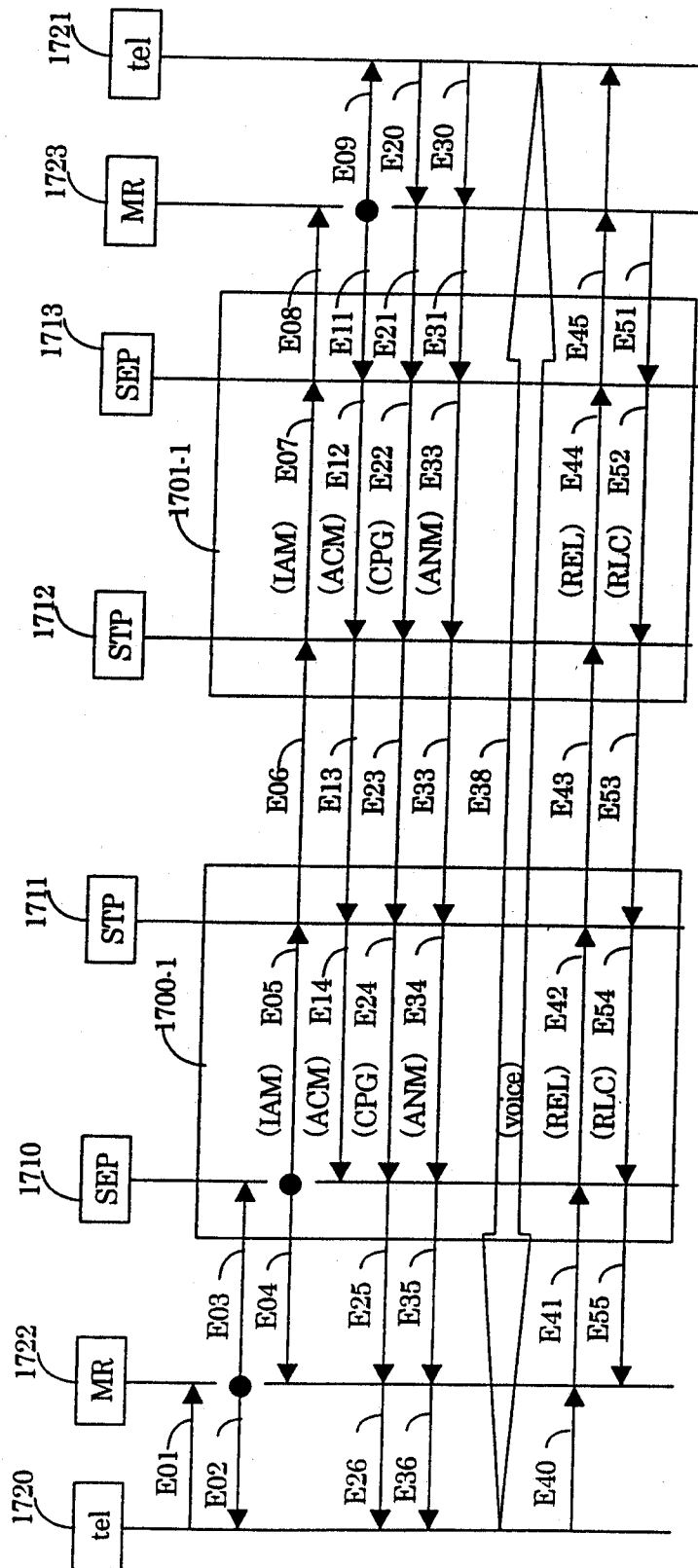


FIG.307

1711-1

Address for Call Control	CIC No.	Step	Phone No.	Ext. IP Address	Port No.	Start Time	End Time
D-ad-4 S-ad-4	CIC-4	LAM	TN-1 TN-2	EA1722	5014	St5	

FIG.308

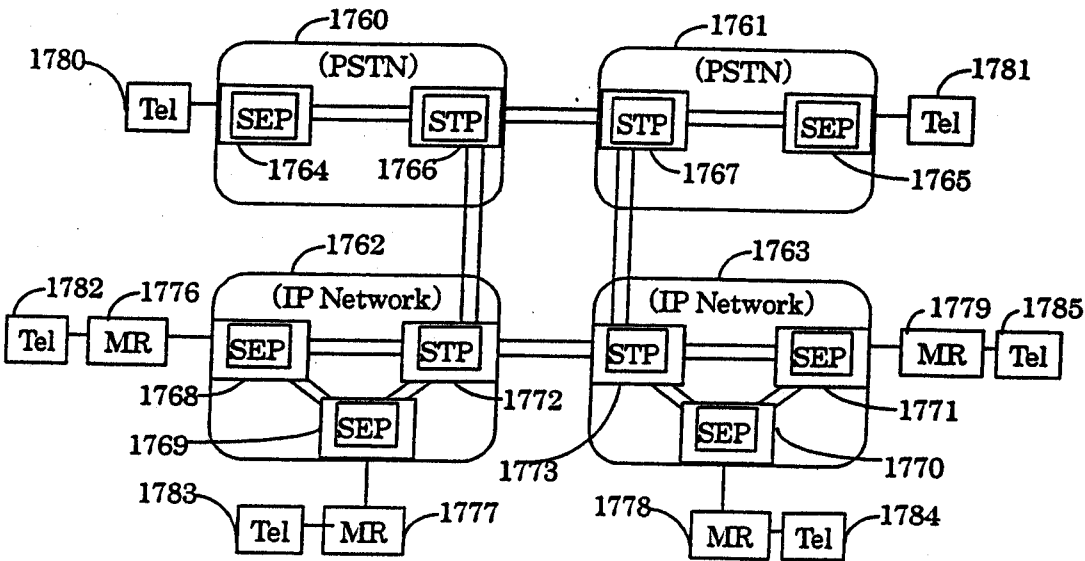


FIG.309

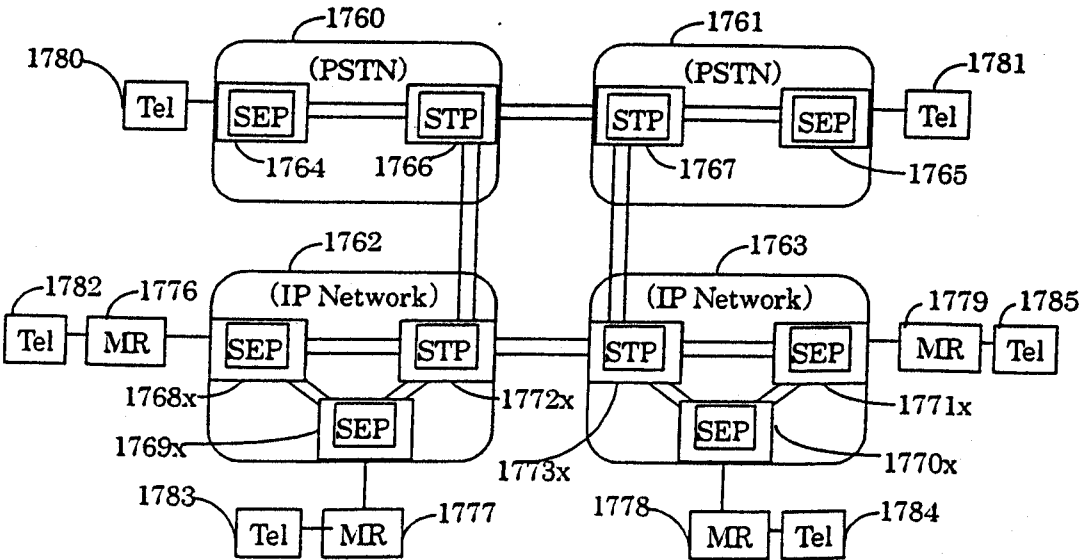


FIG.310

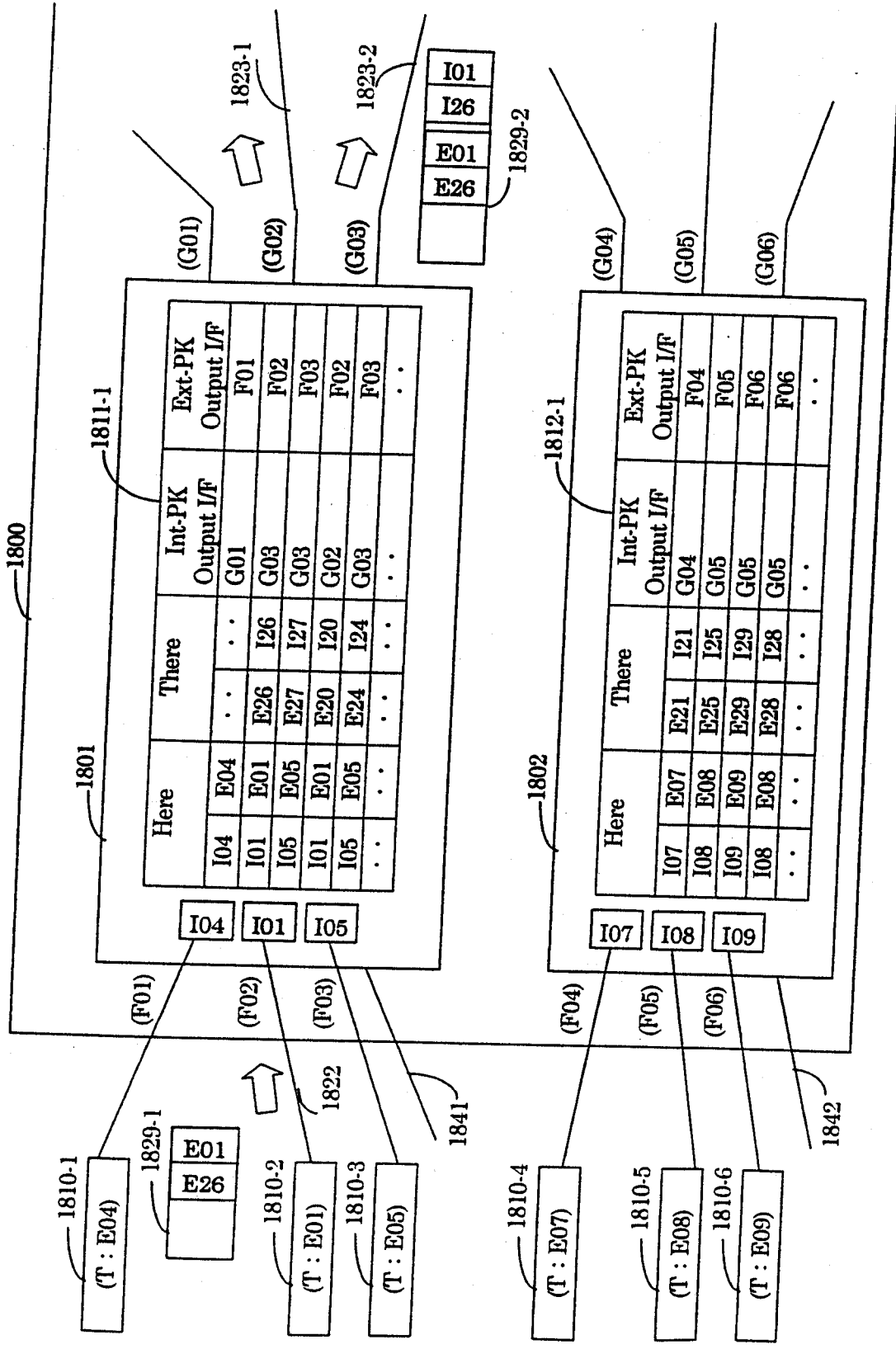


FIG.311

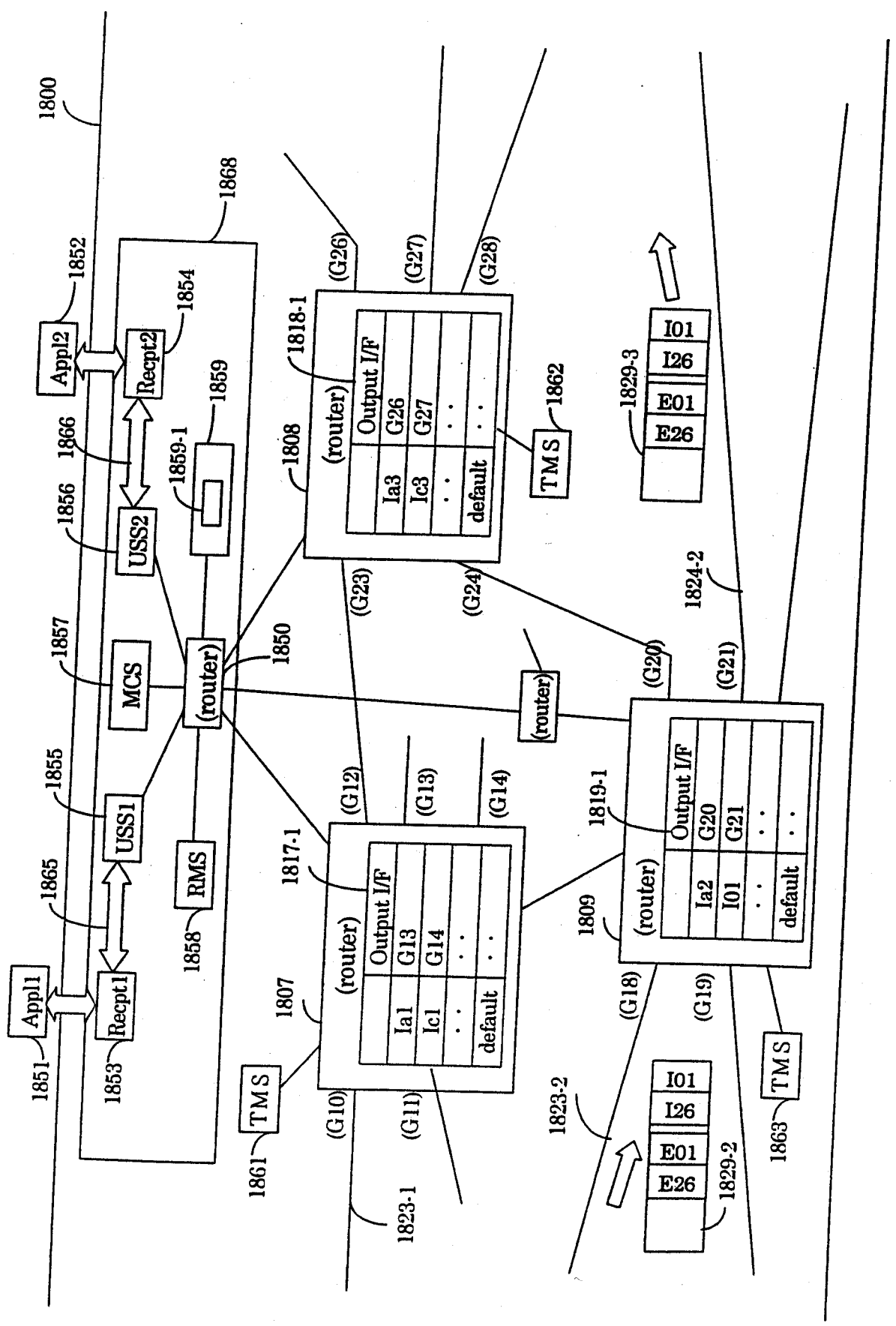
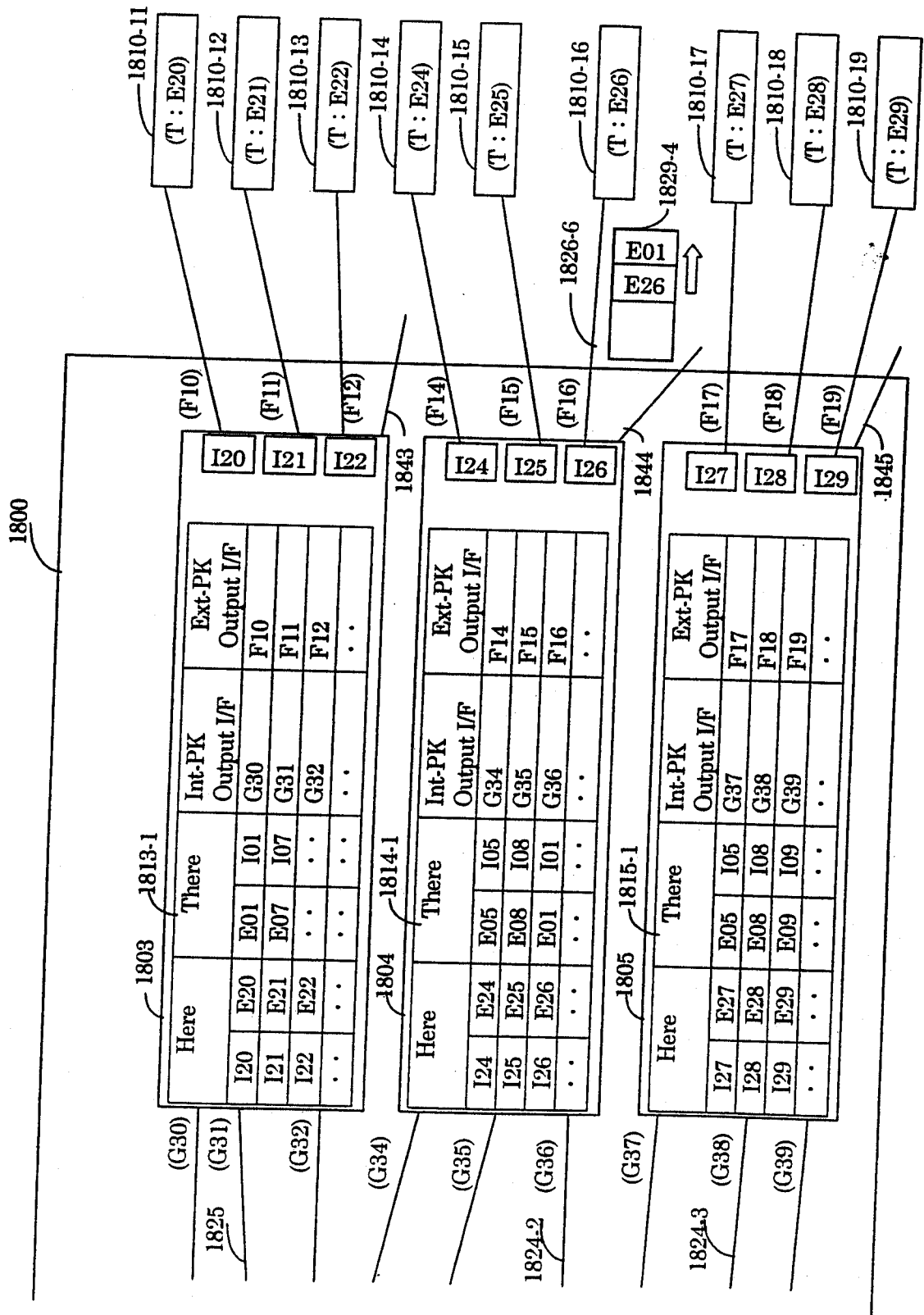


FIG.312



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FIG.313

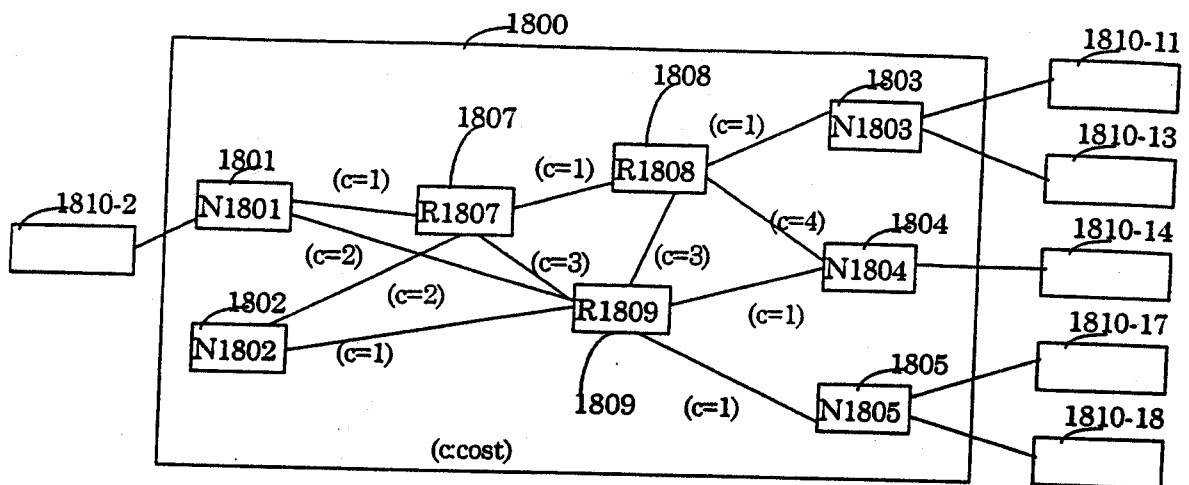


FIG.314

1869

	N1801	N1802	N1803	N1804	N1805	R1807	R1808	R1809	.
N1801						1		2	.
N1802						2		1	.
N1803							1		.
N1804							4	1	.
N1805								1	.
R1807	1	2					1	3	.
R1808			1	4		1		3	.
R1809	2	1		1	1	3	3		.
..	..	..	..	..	..	..	..	..	.

(note: blank = no connection)

FIG.315

1870

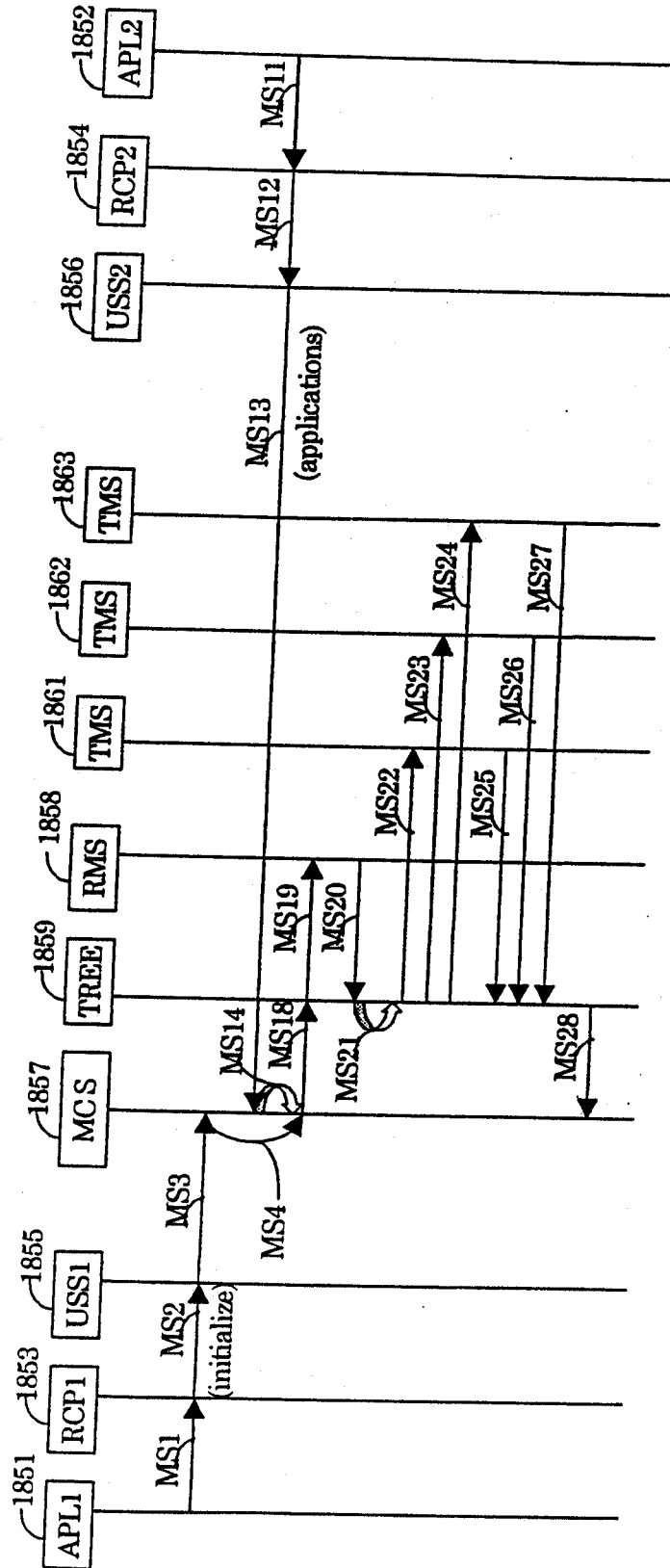
N1801	T1810-2
-------	---------

FIG.316

1871

N1803	T1810-11, T1810-13
N1804	T1810-14
N1805	T1810-17, T1810-18

FIG. 317



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FIG.318

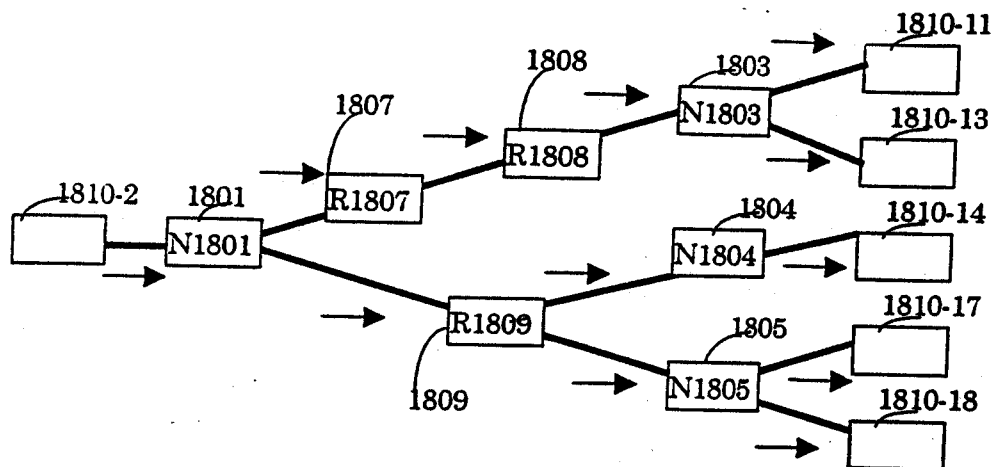


FIG.319

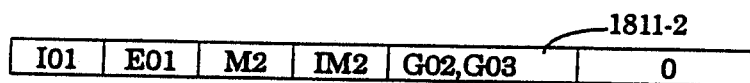


FIG.320

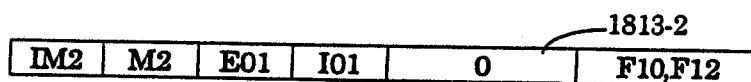


FIG.321

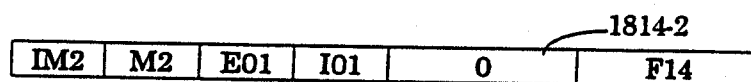


FIG.322

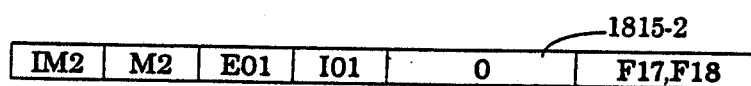


FIG.323

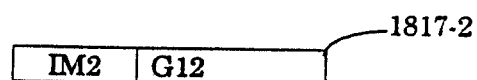


FIG.324

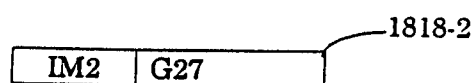
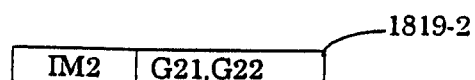


FIG.325



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FIG. 326

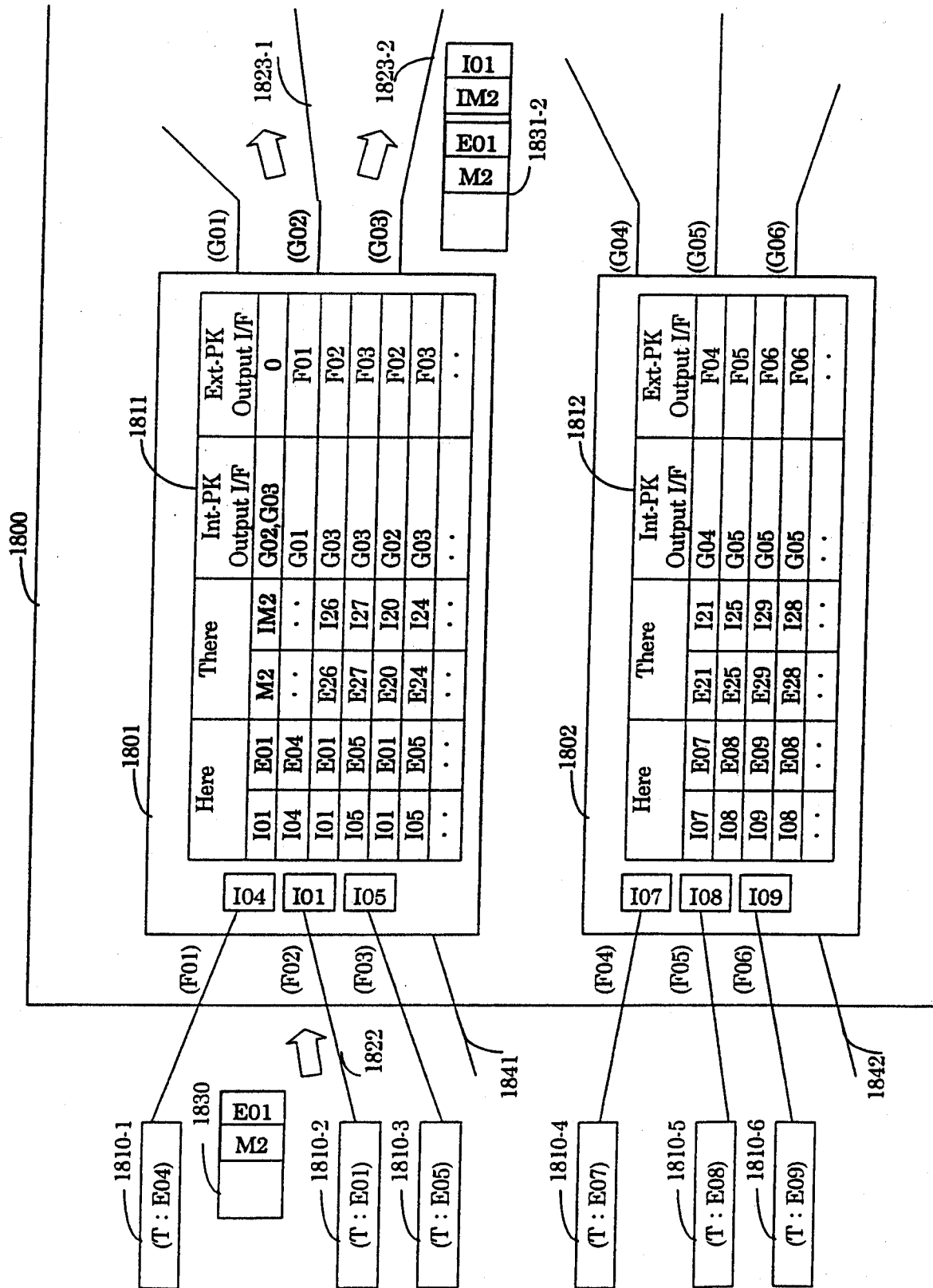
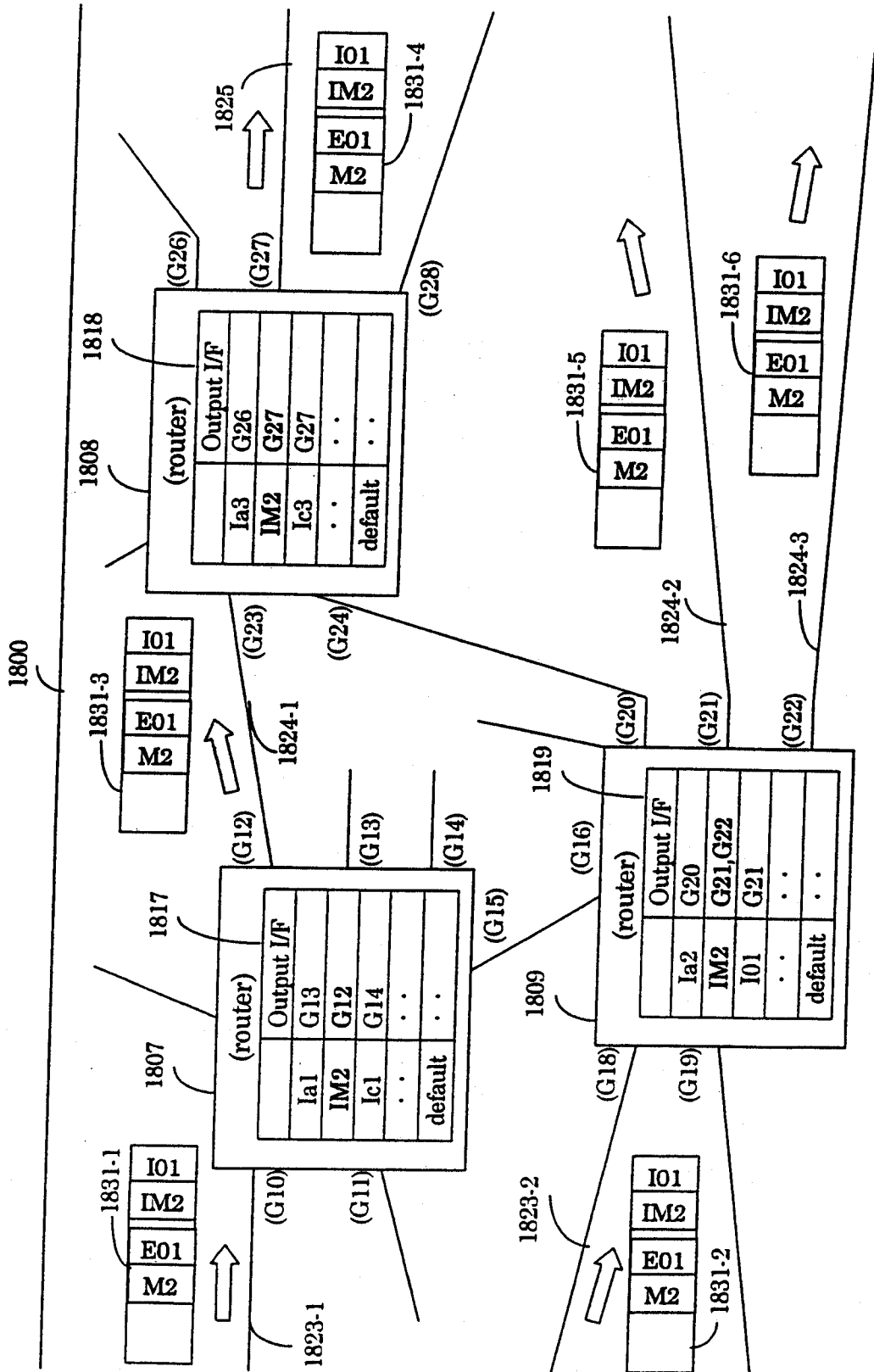


FIG.327



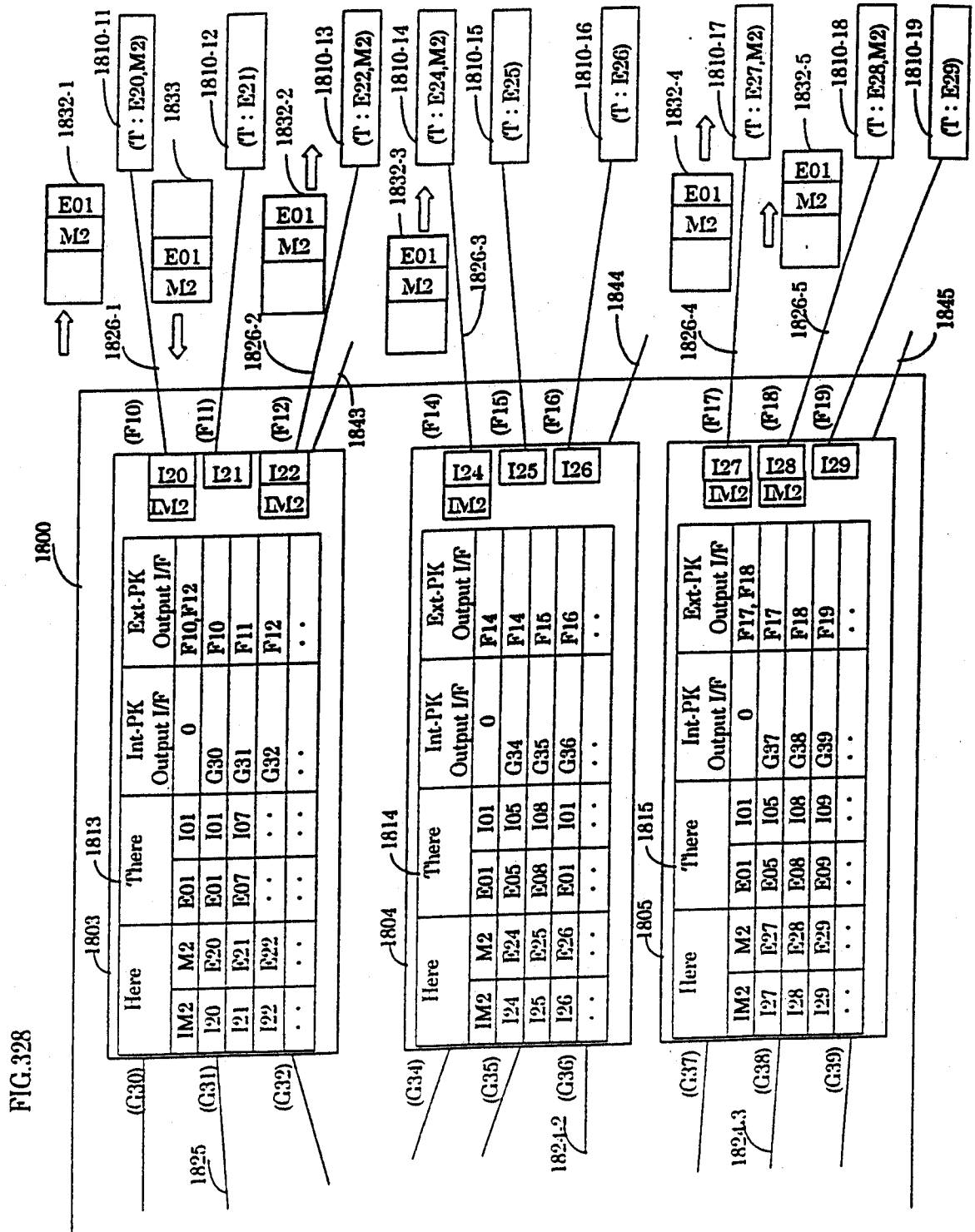
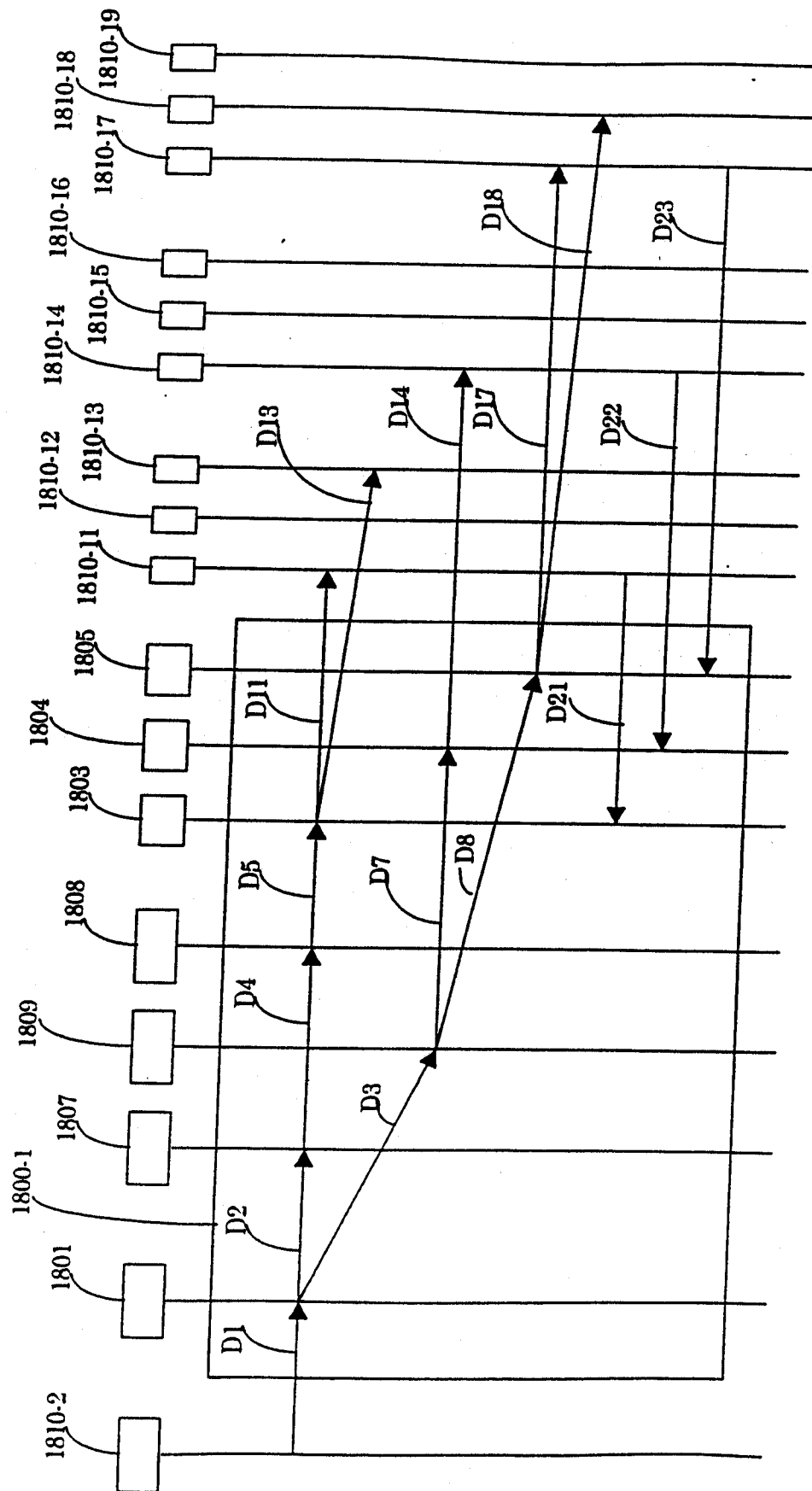


FIG. 329



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FIG.330

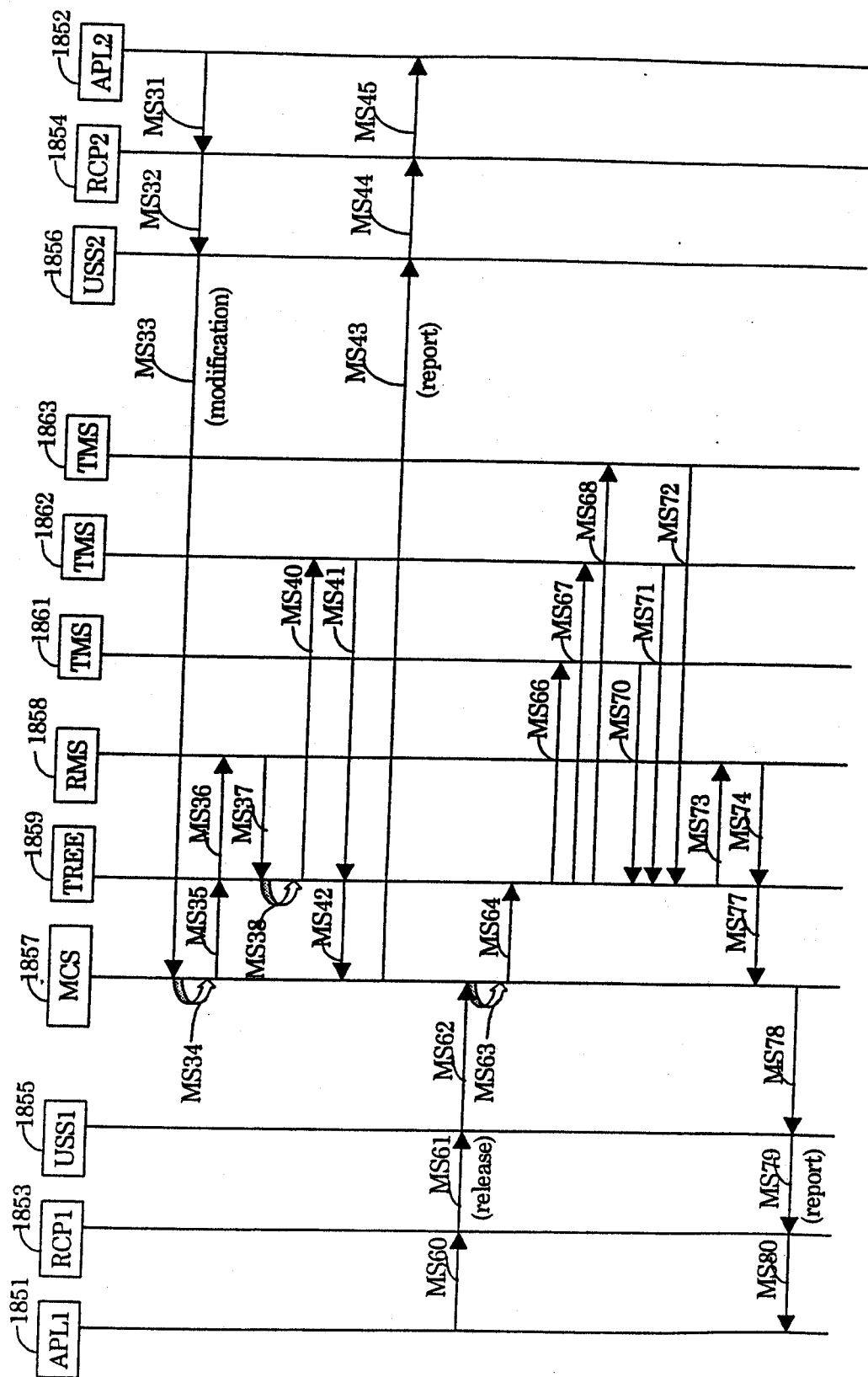


FIG.331

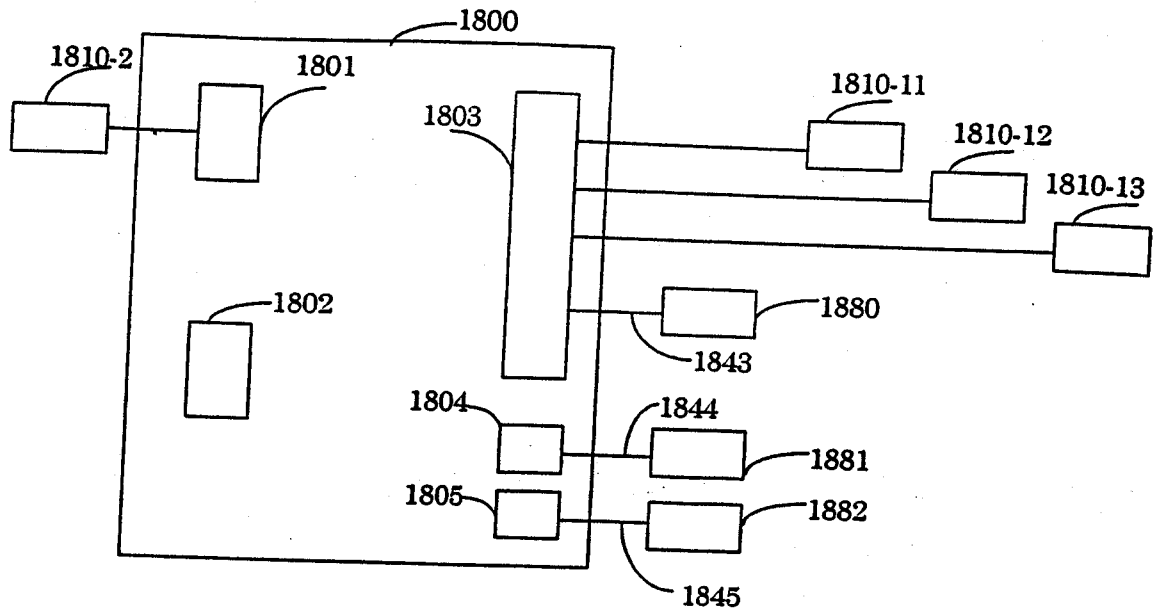


FIG.332

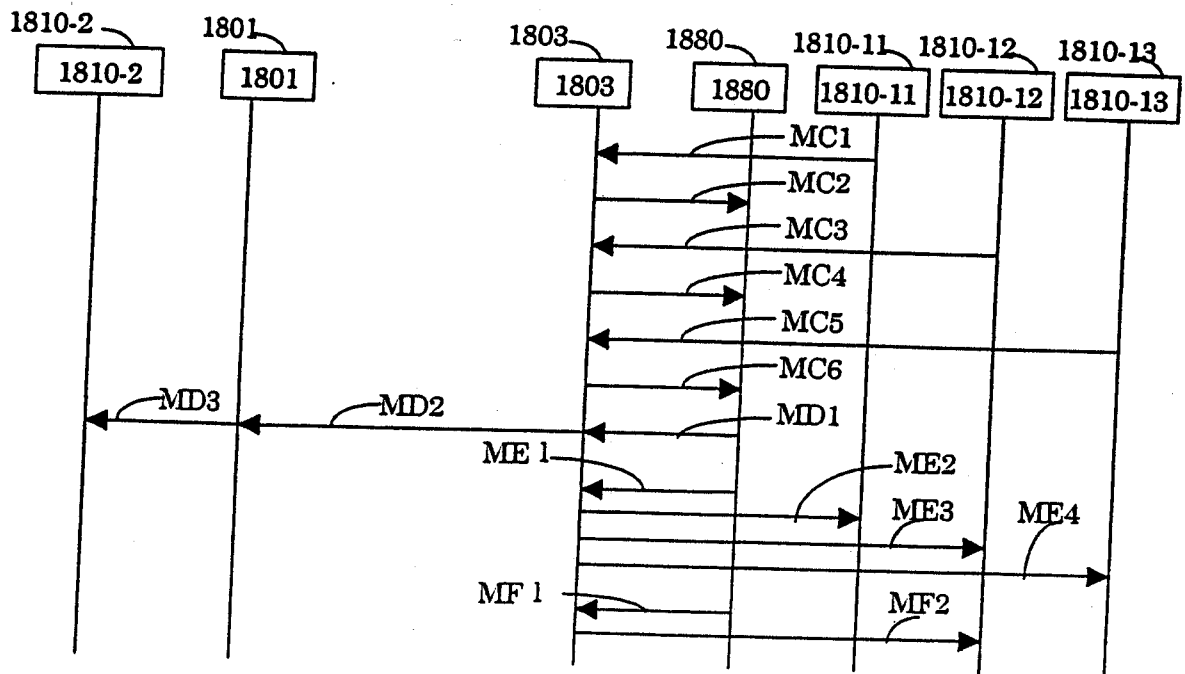
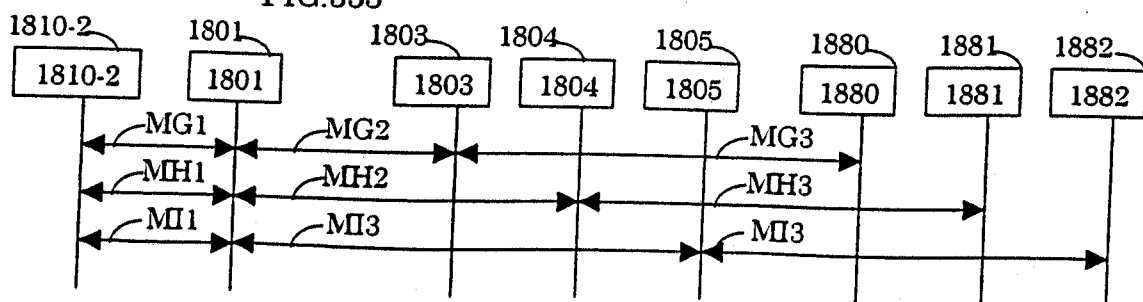


FIG.333



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FIG.334

1811-5

Here	There		Int-PK Output I/F	Ext-PK Output I/F
I01	M2	IM2	G02,G03	0
I04	..	..	G01	F01
I01	E26	I26	G03	F02
I05	E27	I27	G03	F03
I01	E20	I20	G02	F02
I05	E24	I24	G03	F03
..	..	..	..	..

FIG.335

1811-6

Here			There			Int-PK Out I/F	Ext-PK Out I/F
I-adr	Mask	E-adr	Mask	E-adr	I-adr		
I01	M-h01	E01x	M-t2	M2x	IM2	G02,G03	0
I04	M-h04	E04x	..	..	..	G01	F01
I01	M-h01	E01x	M-t26	E26x	I26	G03	F02
I05	M-h05	E05x	M-t27	E27x	I28	G03	F03
I01	M-h01	E01x	M-t20	E20x	I20	..	..
I05	M-h05	E05x	M-t24	E24x	I24	..	..
..	..	..	..	..	..	..	..

FIG.336

1811-7

Here		There		Int-PK Output I/F	Ext-PK Output I/F
I01	E01	M2	IM2	MT-1	0
I04	E04	..	..	G01	F01
I01	E01	E26	I26	G03	F02
I05	E05	E27	I28	G03	F03
I01	E01	E20	I20	..	..
I05	E05	E24	I24	..	..
..	..	..	..	..	..

FIG.337

1811-8

MT-1	G02,G03
..	..

Figure 1 is a block diagram of a cryptographic system 1900. The system includes several input blocks (1910-02, 1910-06, 1910-07) and processing blocks (T02 (E02), T06 (E06), T07 (E07)). These feed into a central block 1901, which contains a table 1911. The table 1911 has four columns: 'Here', 'There', 'Int-PK output', and 'Ext-PK output'. The 'Here' column lists inputs I02, I06, I07, and others. The 'There' column lists corresponding outputs M2, E91, E93, E95, etc. The 'Int-PK output' column lists values like IM2, I91, I93, I95, etc. The 'Ext-PK output' column lists values like 0, F02, F06, F07, etc. Below the table, there are boxes for I02, I06, and I07. The output of block 1901 is connected to a block R 1907-1, which then feeds into another block R 1907-2. Block 1907-2 has multiple outputs 1931-1, 1931-2, 1931-3, 1931-4, and 1931-5. A block 1941-5 is also connected to the system.

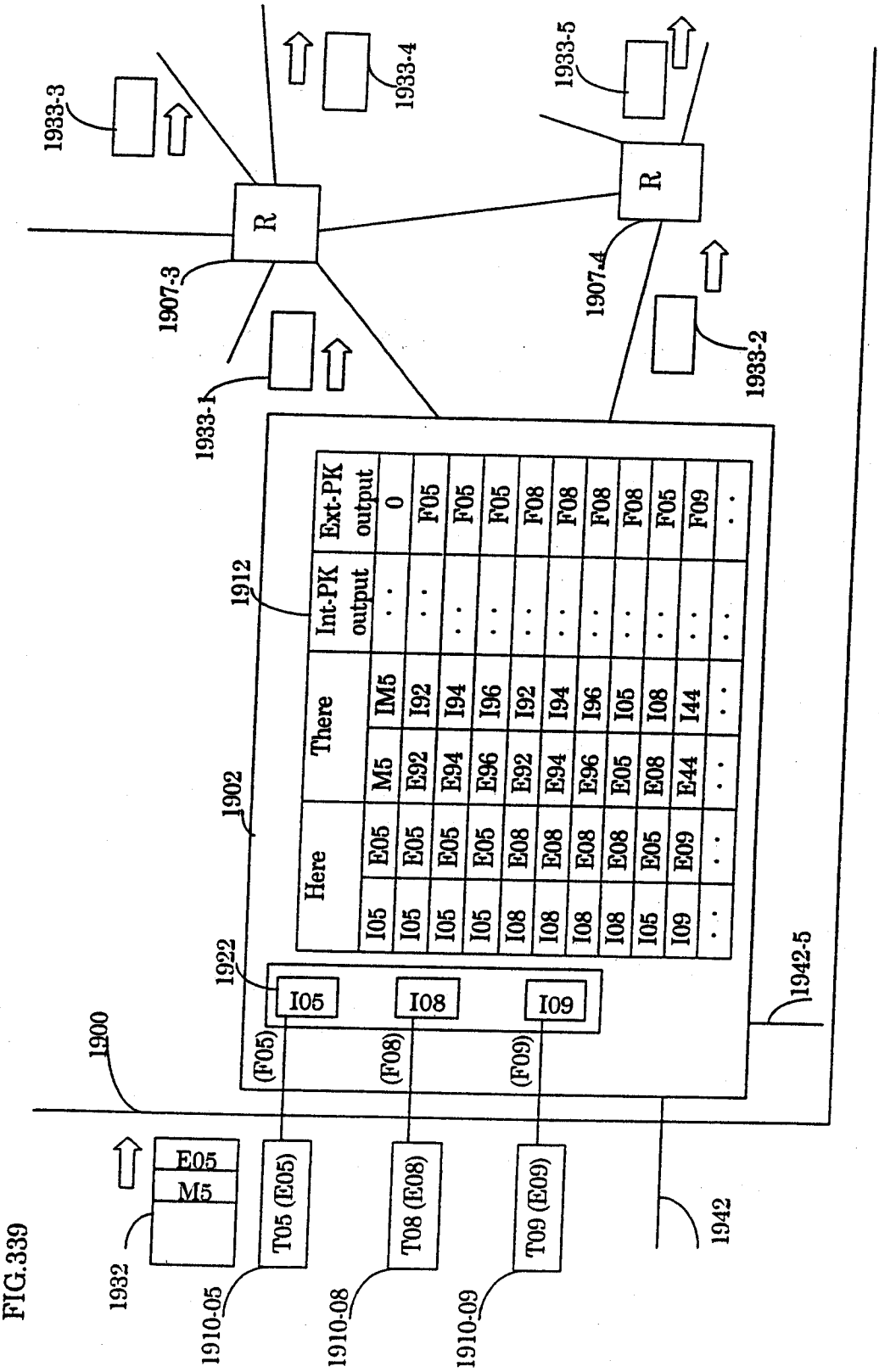


FIG. 340

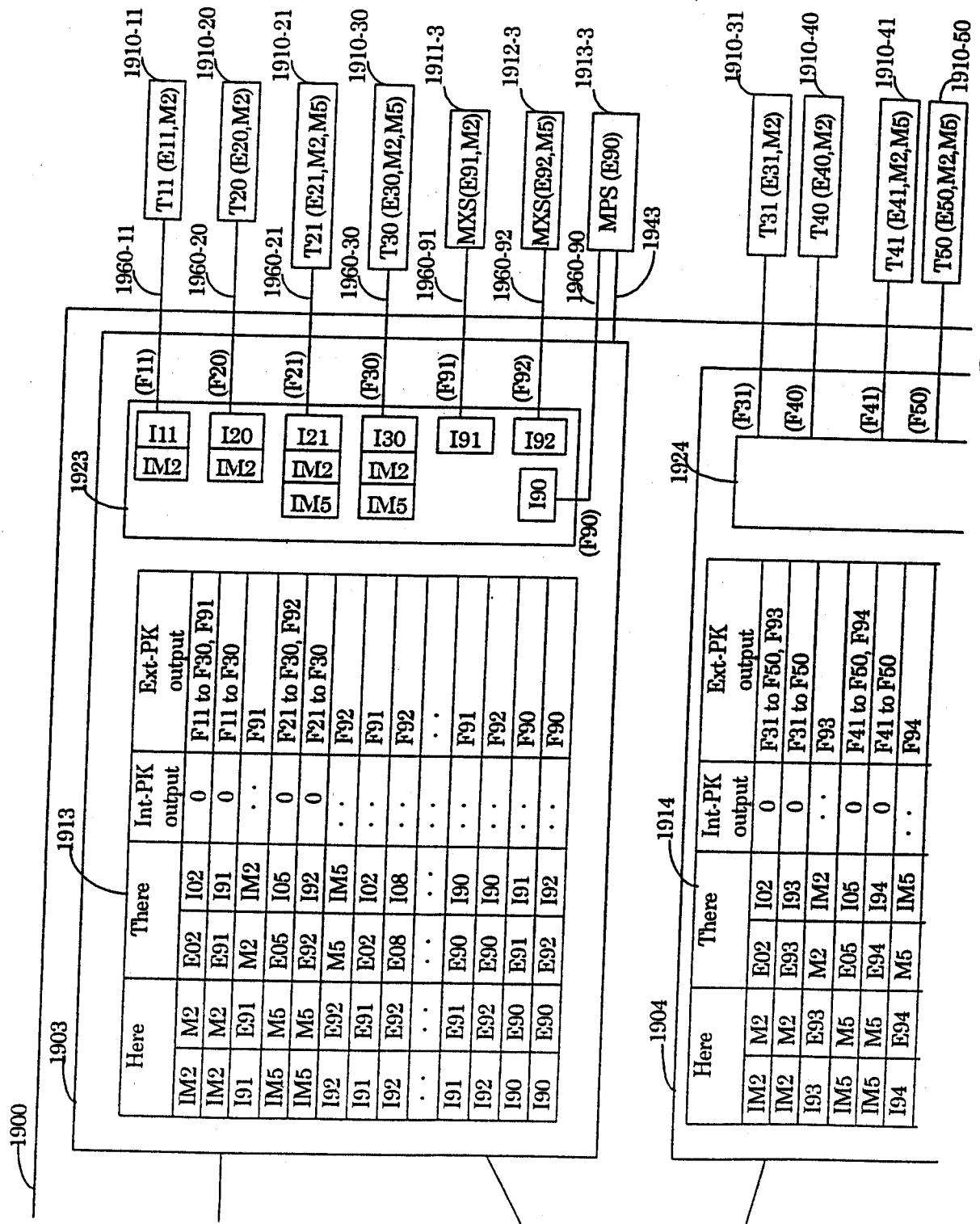


Figure 1 is a block diagram of a data processing system. The system is divided into several functional blocks, each labeled with a reference numeral and a functional description:

- 1911-4**: MXS(E93,M2)
- 1912-4**: MXS(E94,M5)
- 1914-1**: MPS
- 1913-4**: MPS
- 1910-51**: T51(E51,M2)
- 1910-60**: T60(E60,M2)
- 1910-61**: T61(E61,M2,M5)
- 1910-70**: T70(E70,M2,M5)
- 1911-5**: MXS(E95,M2)
- 1912-5**: MXS(E96,M5)
- 1915-1**: MPS
- 1915-2**: MPS
- 1913-5**: MPS

The system is connected to a central processing unit (1925) which is linked to a memory unit (1914) and a control unit (1915). The memory unit (1914) contains a table with columns for Here, There, Int-PK output, and Exp-PK output. The control unit (1915) contains a table with columns for Here, There, Int-PK output, and Exp-PK output. The system is also connected to a network (1900) and a database (1905).

Here	There	Int-PK output	Exp-PK output
IM2	M2	E02	I02
IM2	M2	E08	I08
IM5	M2	E05	I05
IM5	M5	E05	I05
IM5	M5	E06	I06
IM5	M5	E07	I07
IM5	M5	E08	I08
IM5	M5	E09	I09
IM5	M5	E10	I10
IM5	M5	E11	I11
IM5	M5	E12	I12
IM5	M5	E13	I13
IM5	M5	E14	I14
IM5	M5	E15	I15
IM5	M5	E16	I16
IM5	M5	E17	I17
IM5	M5	E18	I18
IM5	M5	E19	I19
IM5	M5	E20	I20
IM5	M5	E21	I21
IM5	M5	E22	I22
IM5	M5	E23	I23
IM5	M5	E24	I24
IM5	M5	E25	I25
IM5	M5	E26	I26
IM5	M5	E27	I27
IM5	M5	E28	I28
IM5	M5	E29	I29
IM5	M5	E30	I30
IM5	M5	E31	I31
IM5	M5	E32	I32
IM5	M5	E33	I33
IM5	M5	E34	I34
IM5	M5	E35	I35
IM5	M5	E36	I36
IM5	M5	E37	I37
IM5	M5	E38	I38
IM5	M5	E39	I39
IM5	M5	E40	I40
IM5	M5	E41	I41
IM5	M5	E42	I42
IM5	M5	E43	I43
IM5	M5	E44	I44
IM5	M5	E45	I45
IM5	M5	E46	I46
IM5	M5	E47	I47
IM5	M5	E48	I48
IM5	M5	E49	I49
IM5	M5	E50	I50
IM5	M5	E51	I51
IM5	M5	E52	I52
IM5	M5	E53	I53
IM5	M5	E54	I54
IM5	M5	E55	I55
IM5	M5	E56	I56
IM5	M5	E57	I57
IM5	M5	E58	I58
IM5	M5	E59	I59
IM5	M5	E60	I60
IM5	M5	E61	I61
IM5	M5	E62	I62
IM5	M5	E63	I63
IM5	M5	E64	I64
IM5	M5	E65	I65
IM5	M5	E66	I66
IM5	M5	E67	I67
IM5	M5	E68	I68
IM5	M5	E69	I69
IM5	M5	E70	I70
IM5	M5	E71	I71
IM5	M5	E72	I72
IM5	M5	E73	I73
IM5	M5	E74	I74
IM5	M5	E75	I75
IM5	M5	E76	I76
IM5	M5	E77	I77
IM5	M5	E78	I78
IM5	M5	E79	I79
IM5	M5	E80	I80
IM5	M5	E81	I81
IM5	M5	E82	I82
IM5	M5	E83	I83
IM5	M5	E84	I84
IM5	M5	E85	I85
IM5	M5	E86	I86

FIG. 342

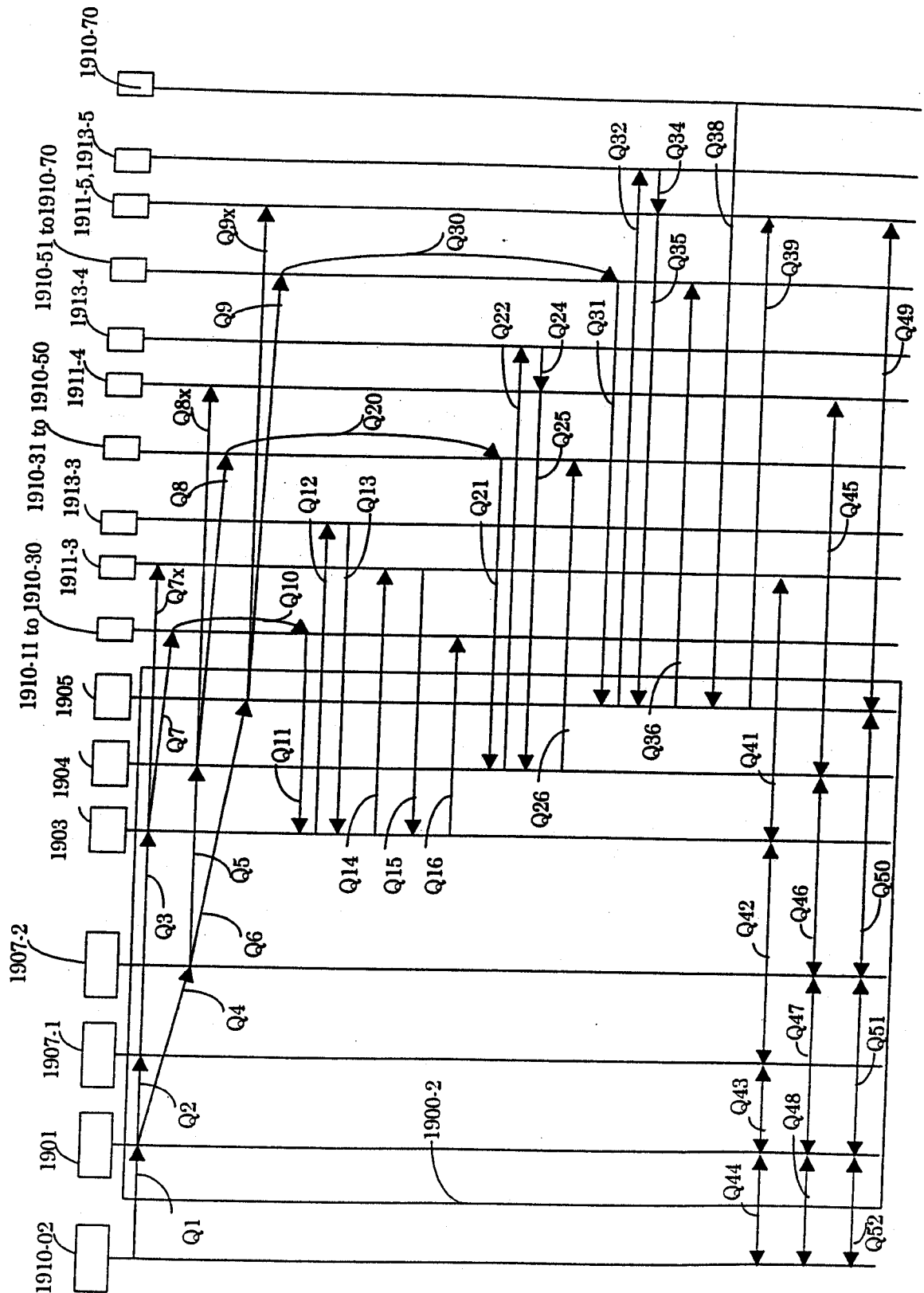
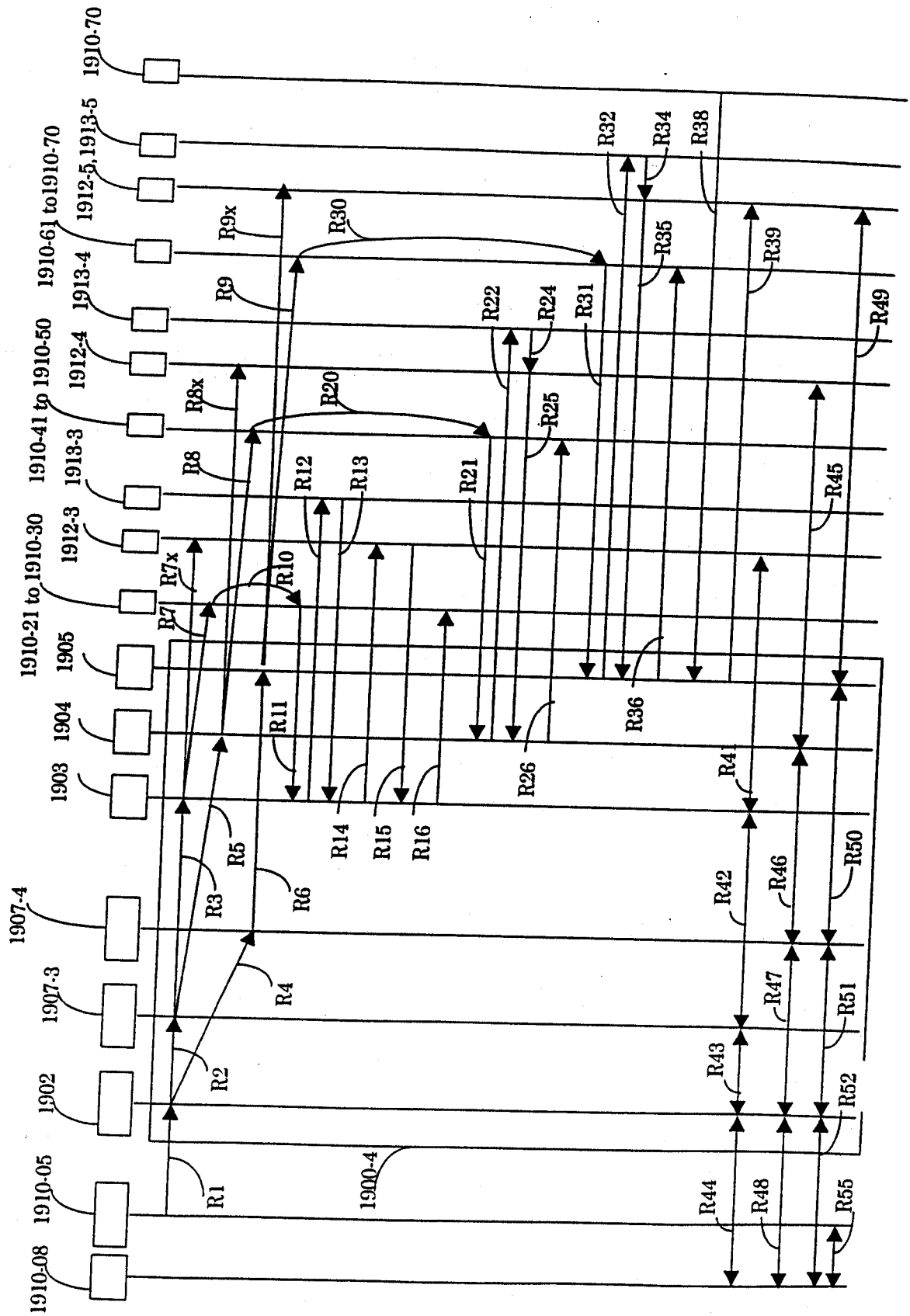


FIG. 343



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FIG.344

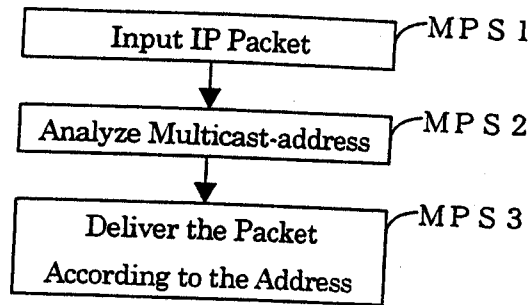


FIG.345

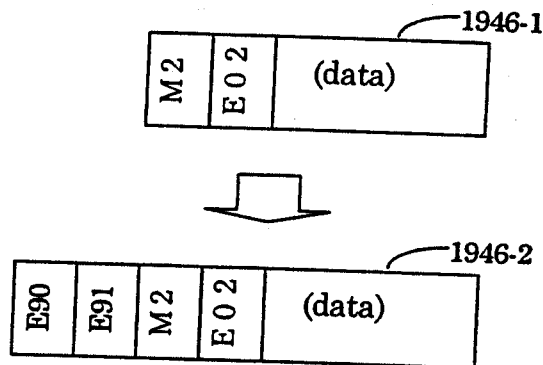


FIG.346

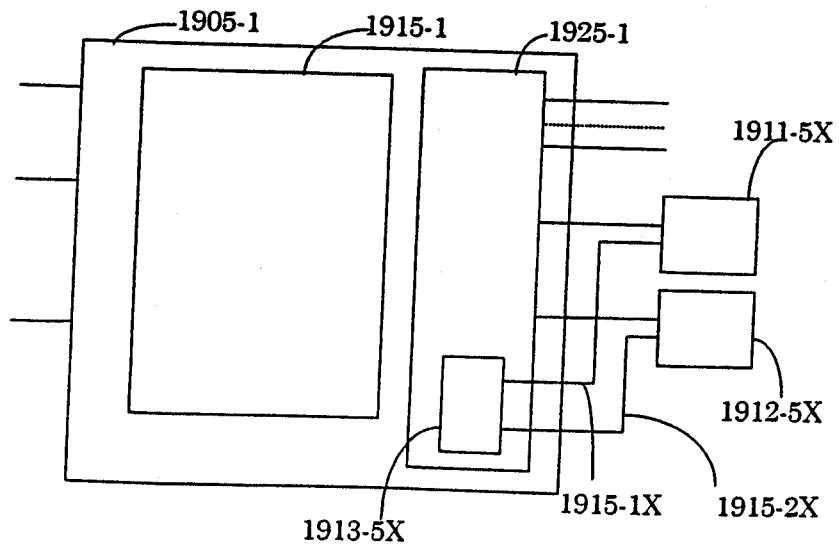


FIG.347

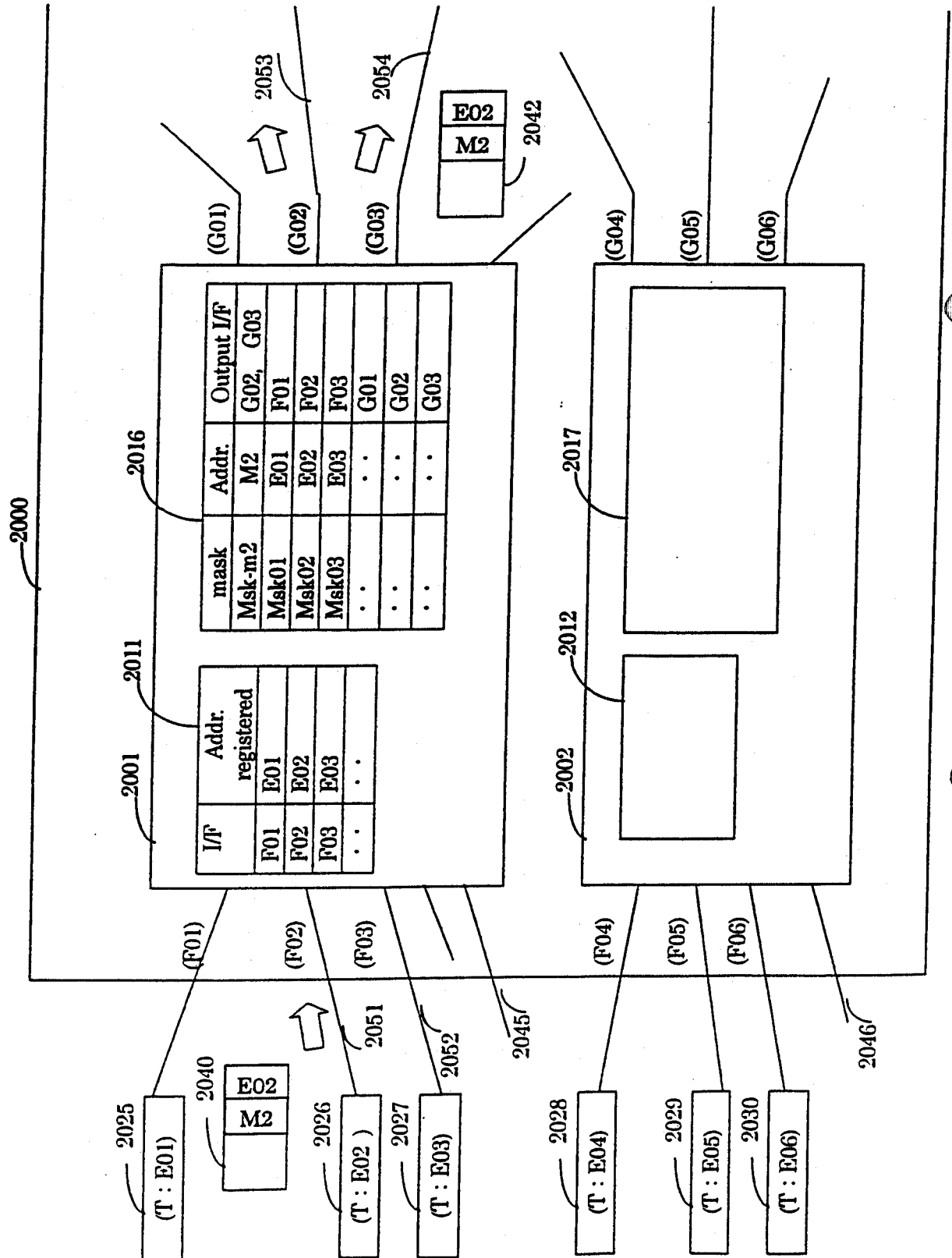


FIG.348

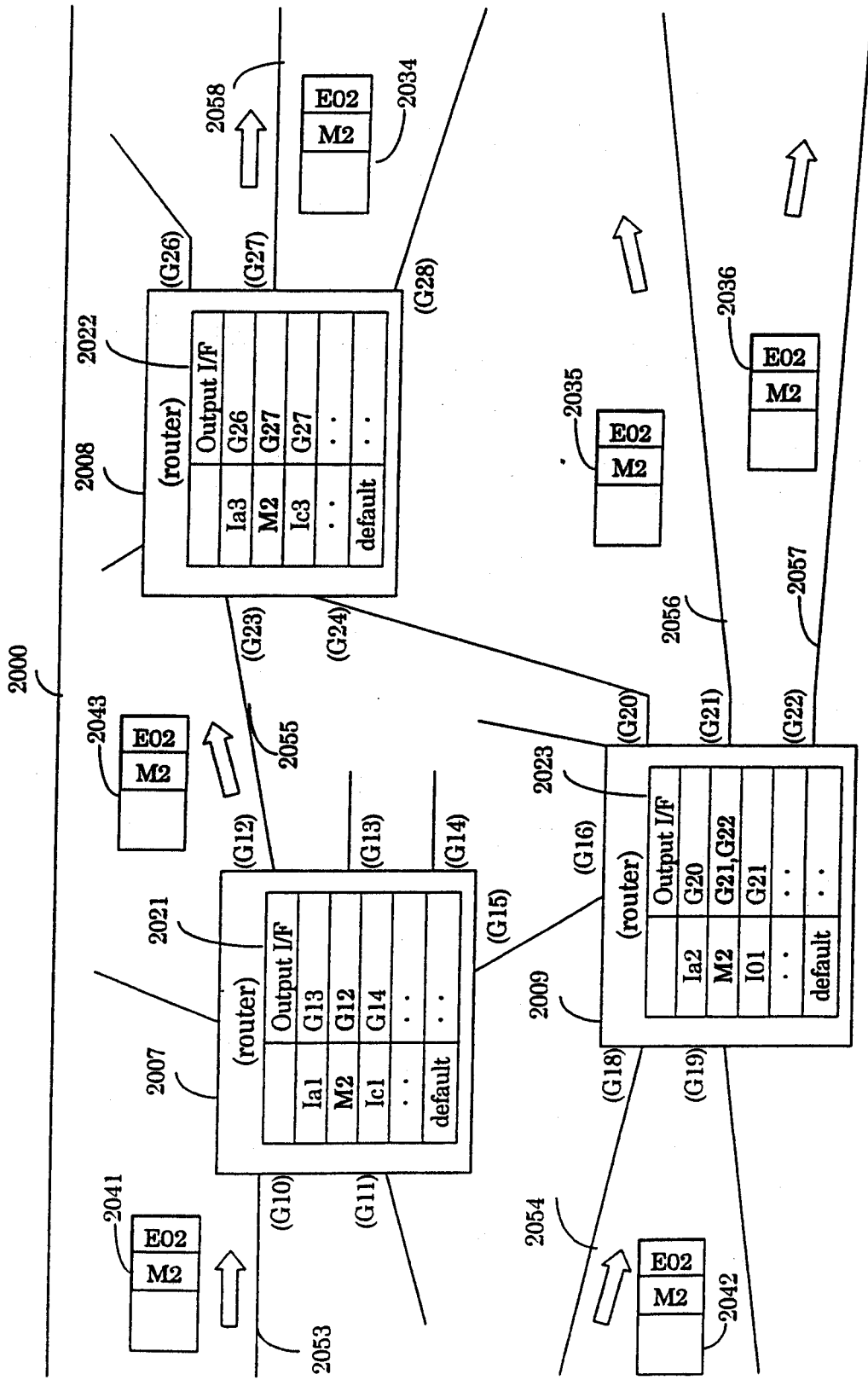


FIG. 349

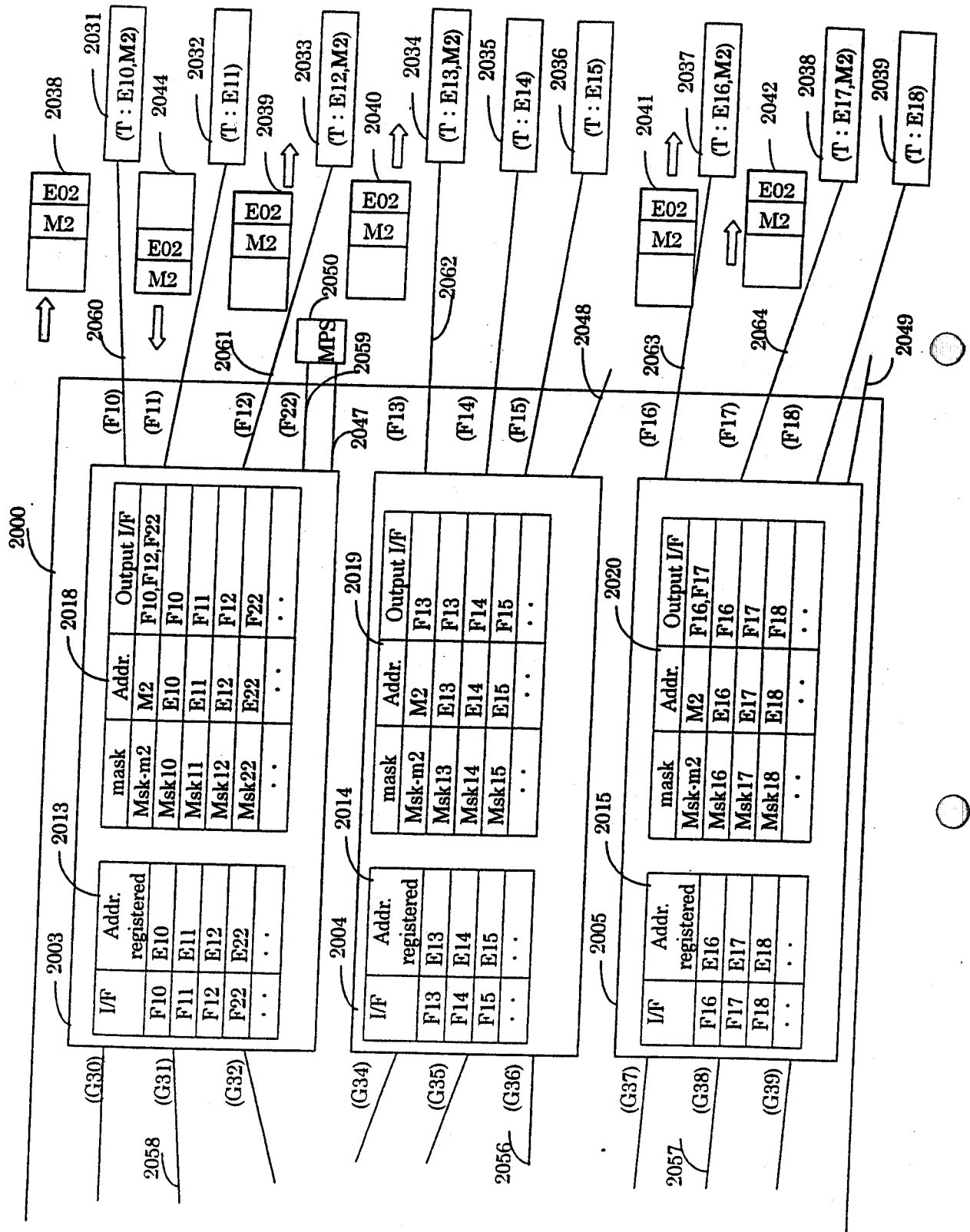


FIG.350

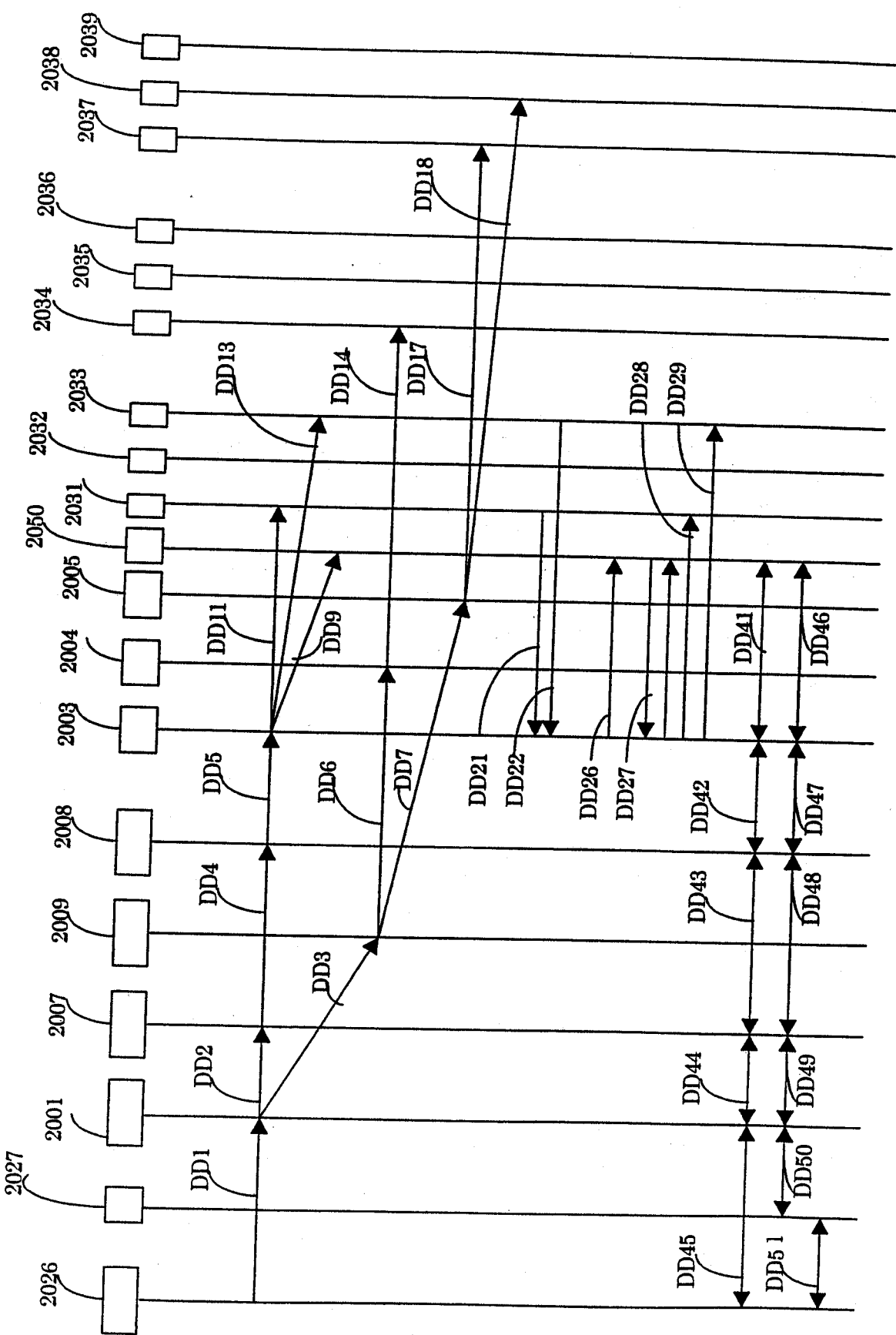


FIG.351

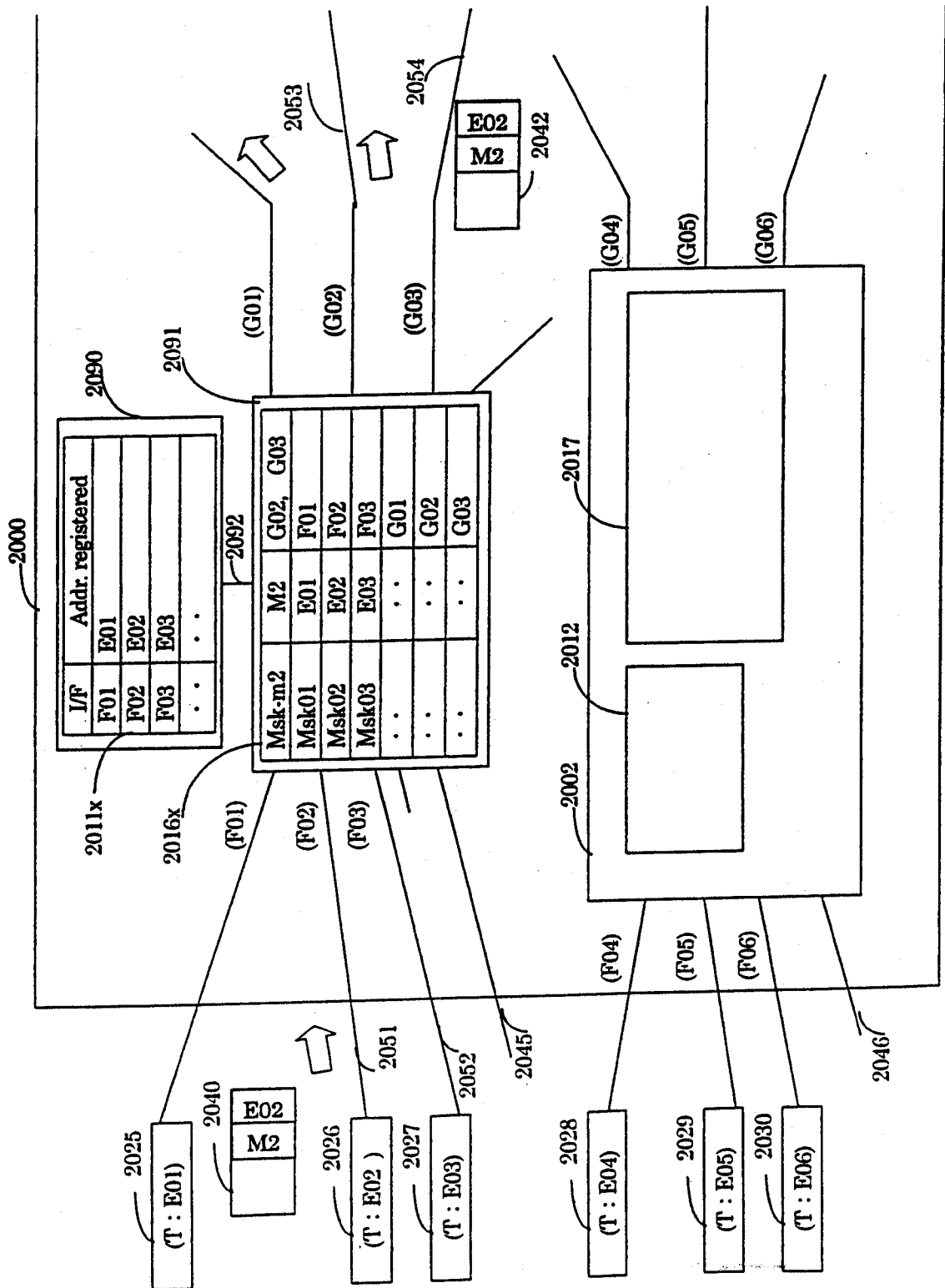


FIG.352

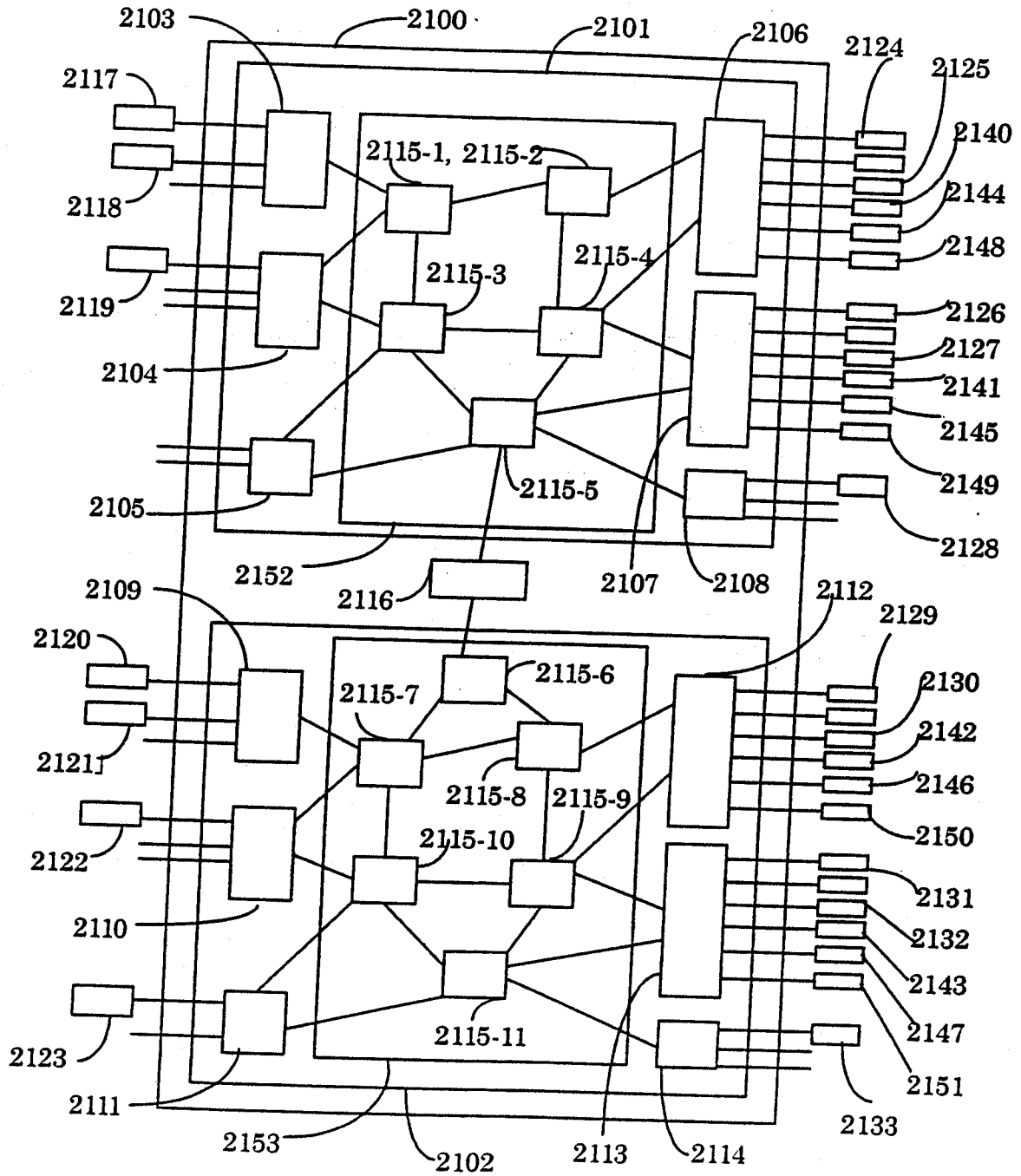


FIG.353

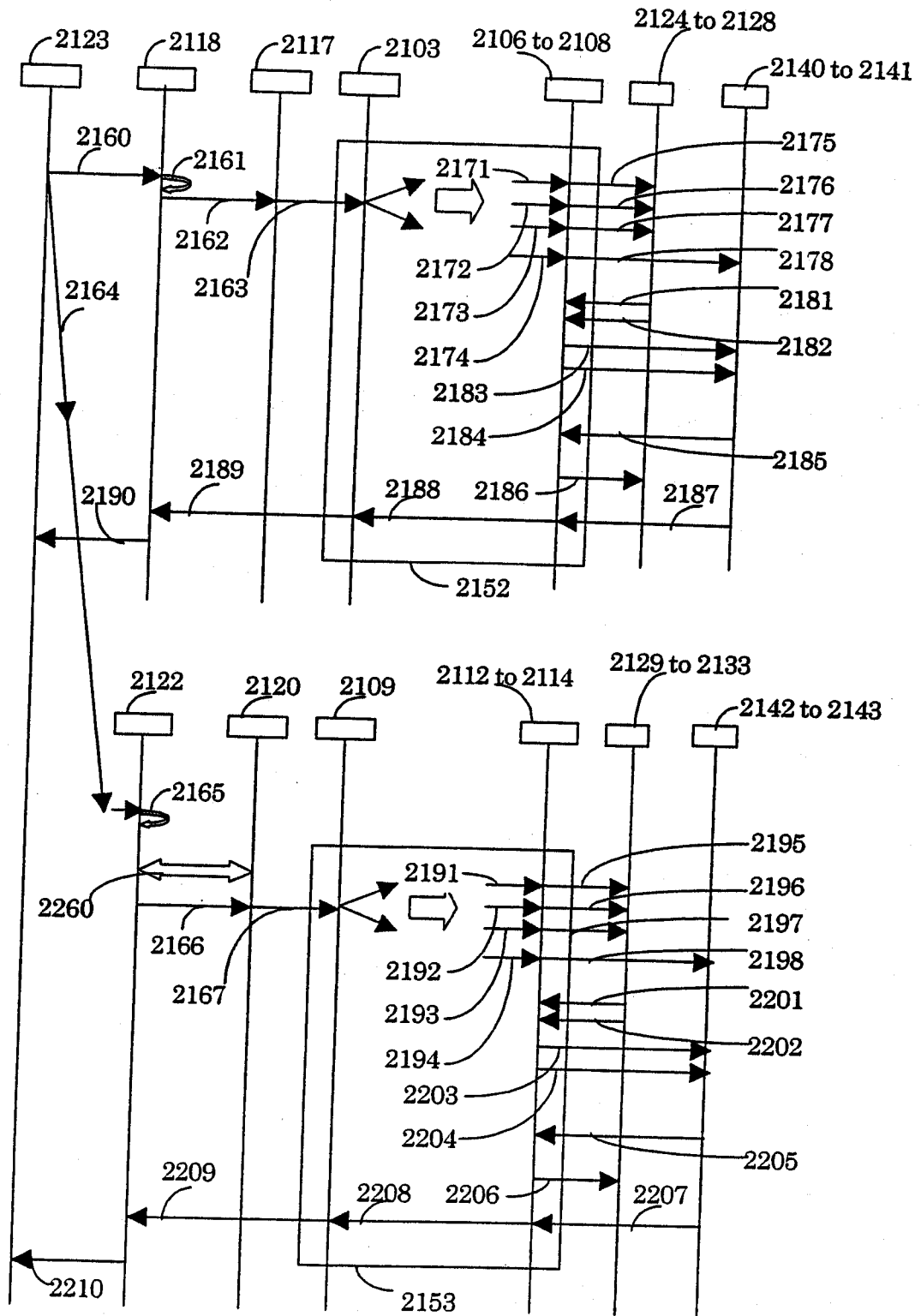


FIG.354

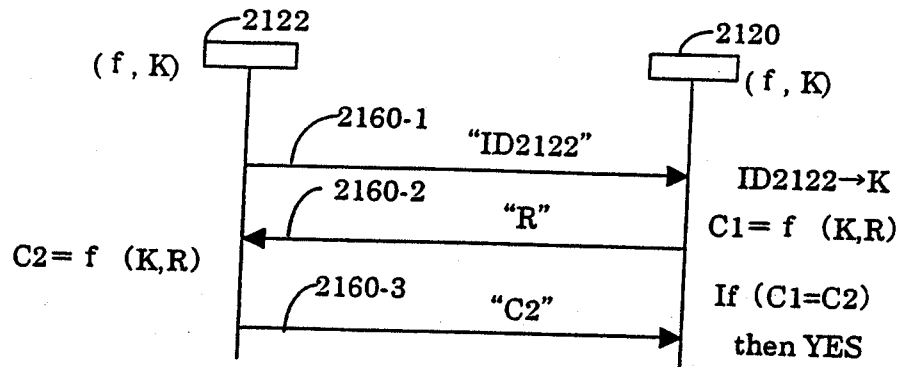


FIG.355

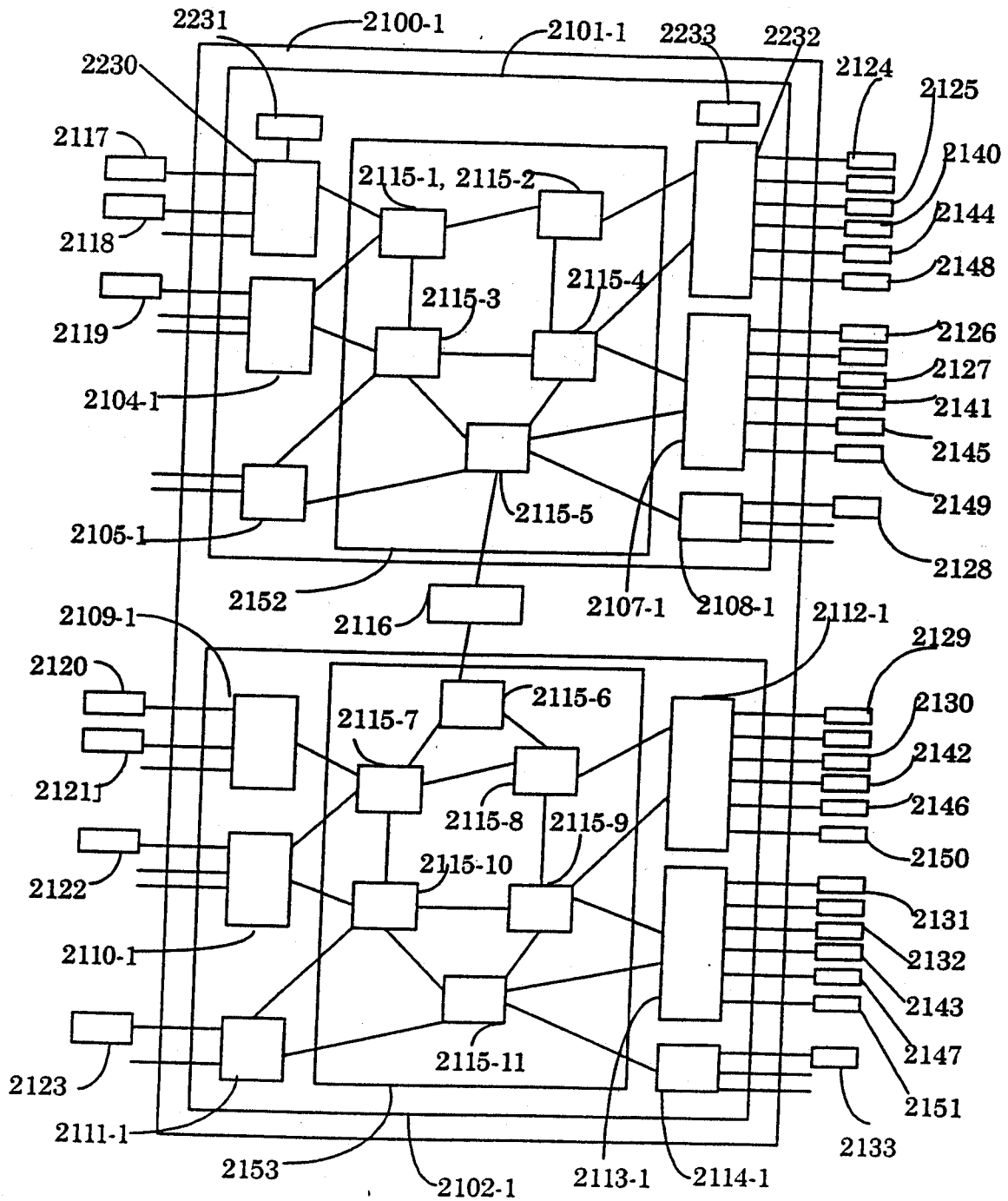


FIG. 356

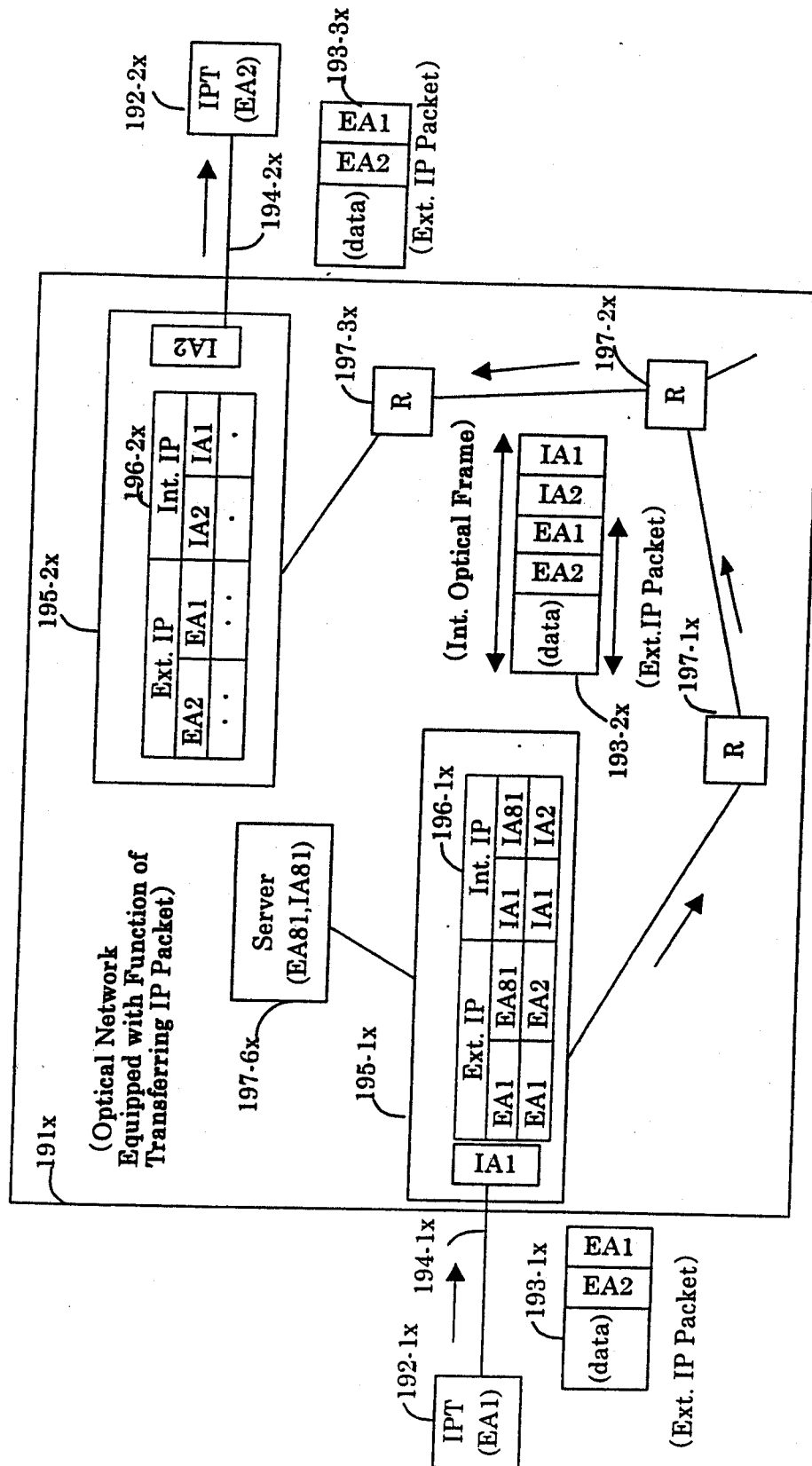


FIG. 357

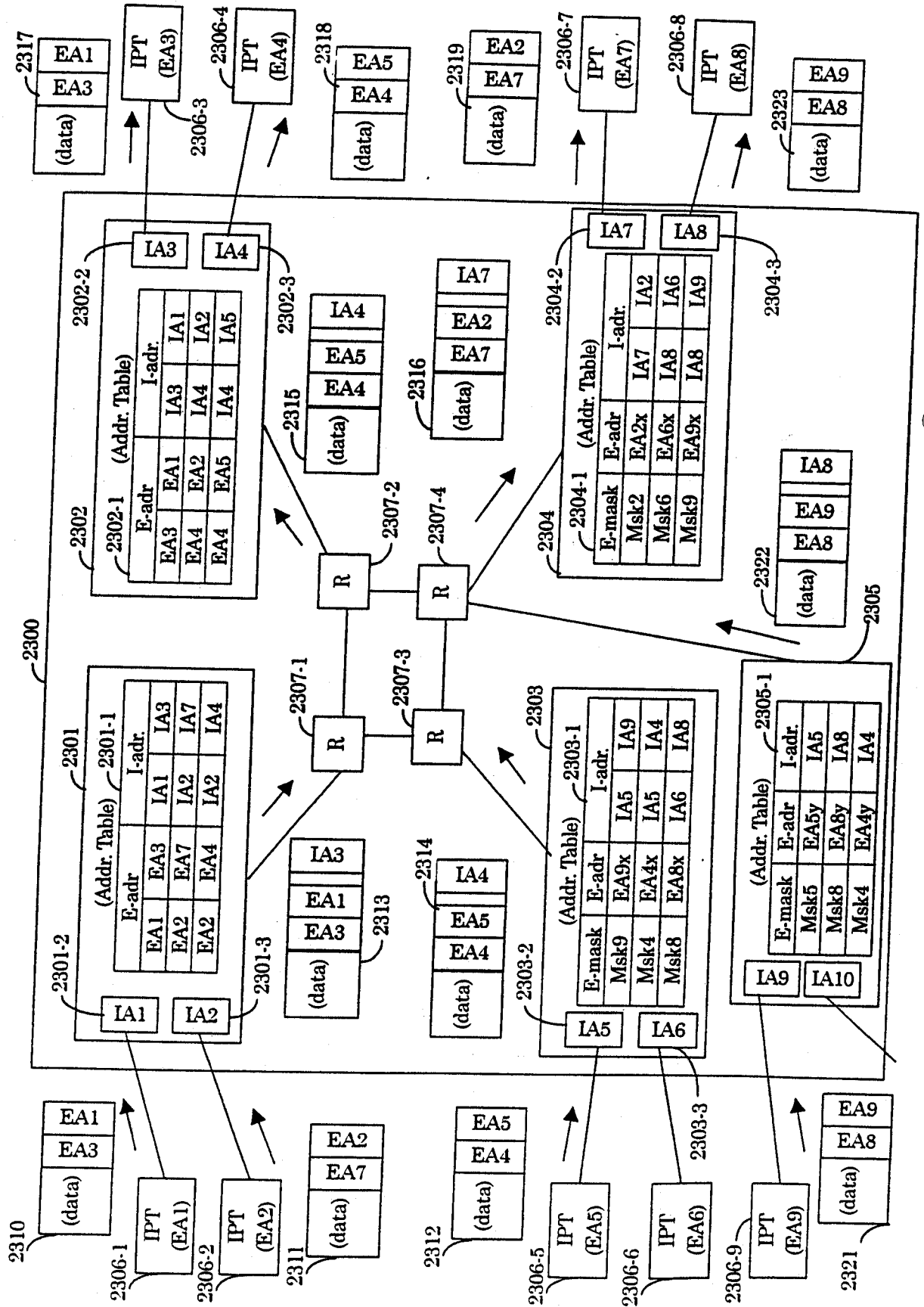


FIG. 358

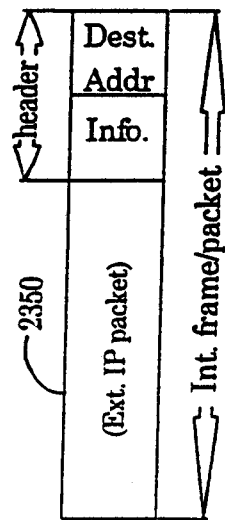


FIG. 359

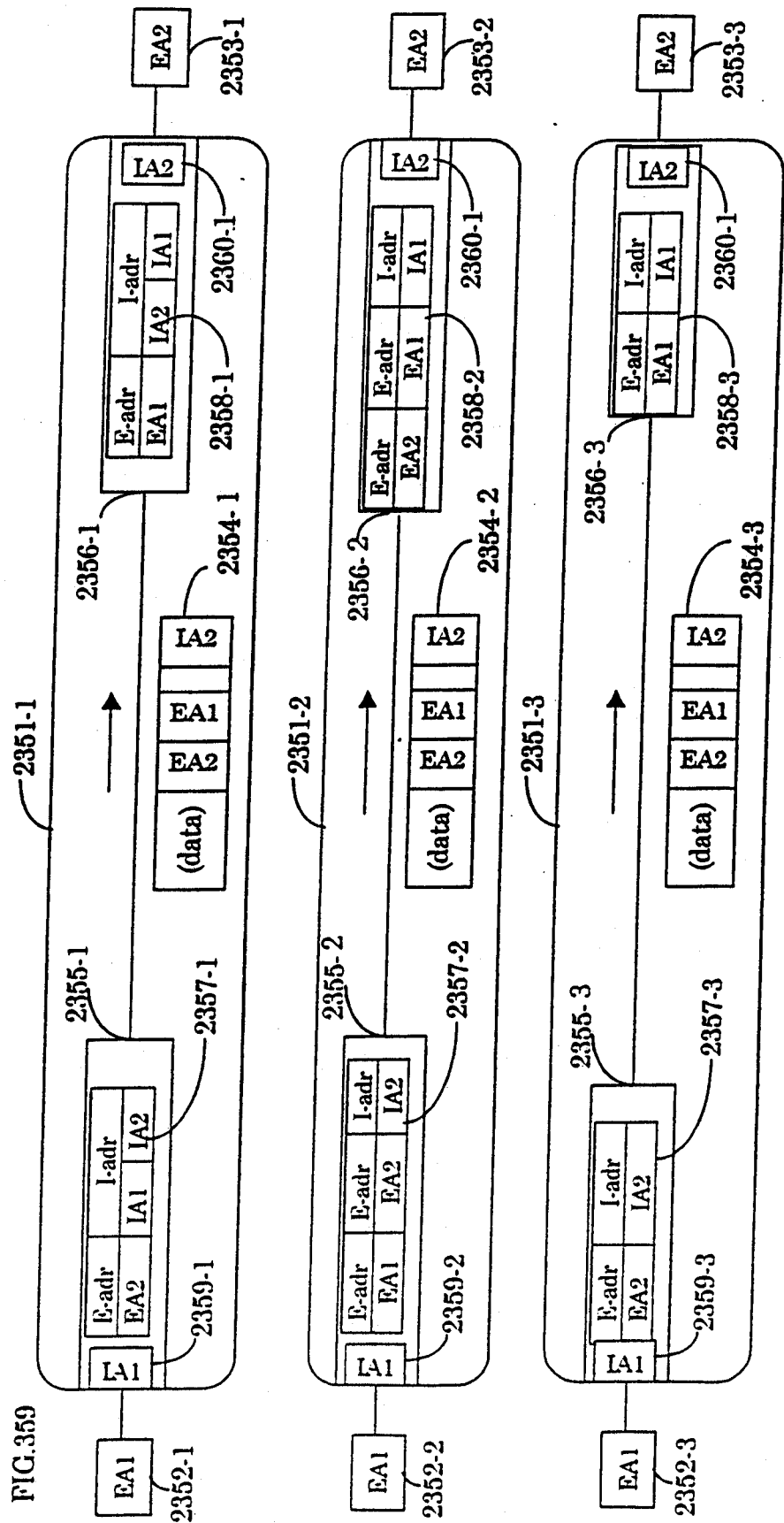


FIG. 360

