10 - 0294044

	(19) (12)	(KR) (B1)	
(51) 。Int. Cl. <sup>6</sup> H04B 7/26		(45) (11) (24)	2001 07 12 10 - 0294044 2001 04 10
(21) (22)	10 - 1998 - 0016104 1998 05 06	(65) (43)	1999 - 0084385 1999 12 06
(73)			
(70)	3 416		
(72)		517 1206	
(74)			
:			
(54)			
	(MSC) (ATM) 기가 (	(PSTN)	가

6a

 $\mathsf{ATM}$ 

VLR

ATM

VL

VLR

VLR

. VLR

R

VLR

VLR

(EO: End Office)

1 2, За 3b 4 5 6b 6a 7a 7b (Wireless Mobile Communication Network) (P STN: Public Switched Telephone Network) (circuit switching) 가 (MSC: Mobile Switching Center) 11 13 MSC 11 13 (MS: Mobile Station) (BS: Base Station) 가 (HLR: Home Location Re gister) (VLR: Visitor Location Register)가 **HLR 20** (call) . HLR 20 MSC 11 가 가 . VLR 21 23 (VLR 가 , MSC 11 13 VLR 21 가 VLR 21 23 HLR 20 가 가 MSC 11 13 3a,3b IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, VOL. 45, NO. 1, FEBRUARY 1996 p.p.114 116, "Comparing the PCS Location Tracking Strategies" IS - 41 , PSTN

2

```
가
                                                [ 1], EO
                                                                           (MIN: Mobile Identif
ication Number)
                       HLR 20
                                                       (query)[
                                                                  2]. HLR 20
        VLR
                     [ 3]. VLR
                                                        MSC
                                                                                    VLR
                     [ 4].
                                                                 , MSC
                                                  HLR
                                                                                [
                                                                                    5].
                       IS - 41
                                                  (access tiome)
                          (cache scheme)"
  За
         3b
                                                                               가
                                       ΕO
                                                               VLR
  HLR
                                                        За
   (cache hit)"
          3b
                             IS - 41
                               (cache miss)"
                             IS - 41
                                                                          (MSC)
                          가
                                                                                 가
  (PSTN)
                                                                     (ATM)
    . ATM
                                                                                     (MIN)
                                        (VLR)가
                                                                  PSTN
    가
               가
                             (EO)
                                                                (VLR)
                가
                                                                                     VLR
                                                           VLR
          VLR
                              ATM
    VLR
                                                VLR
                                                                           VLR
                                                             \mathsf{ATM}
                                                                                           VL
```

- 3 -

R

```
가
              가
     가
  4
                                                       , PSTN
                                                                      MSC
                                    (S/W: Switch) 31 33가
     (ATM: Asynchronous Transfer Mode)
 가 . ATM
               31 33 MSC
                                                (radio resource)
                                     (handover)
                            가 가
                                                                      31 33
                                                                                     가
                                                       . ATM
                                     MSC
                             VLR
                                                                   ATM
               가
                                                           VLR
                            VLR
          ATM
                                                                                VLR
                     가
                              VLR
                                                        VLR
      VLR
                                                         ATM
                                                                  가
                         MSC
                                                           (point - to - multipoint)
       (ADD)
                              가
                                  (SETUP)
                                 (EO)
                                                5
                                                        VLR
                                                                   )가
                                VLR2
            MIN#1
                    VLR1
                                                                 MIN#1
    5
                                                                             가
                                                                                  가
   MIN#1
                      가
                                                           가
                                        6a
                                                                                 (Incom
ing Call)가
                              (MIN)
              VLR
                                                                       VLR
                                             VLR
                                                                   \mathsf{ATM}
                                                       VLR(VLR1,VLR2)
                        (Multicasting)
                                                                                   VLR
```

- 4 -

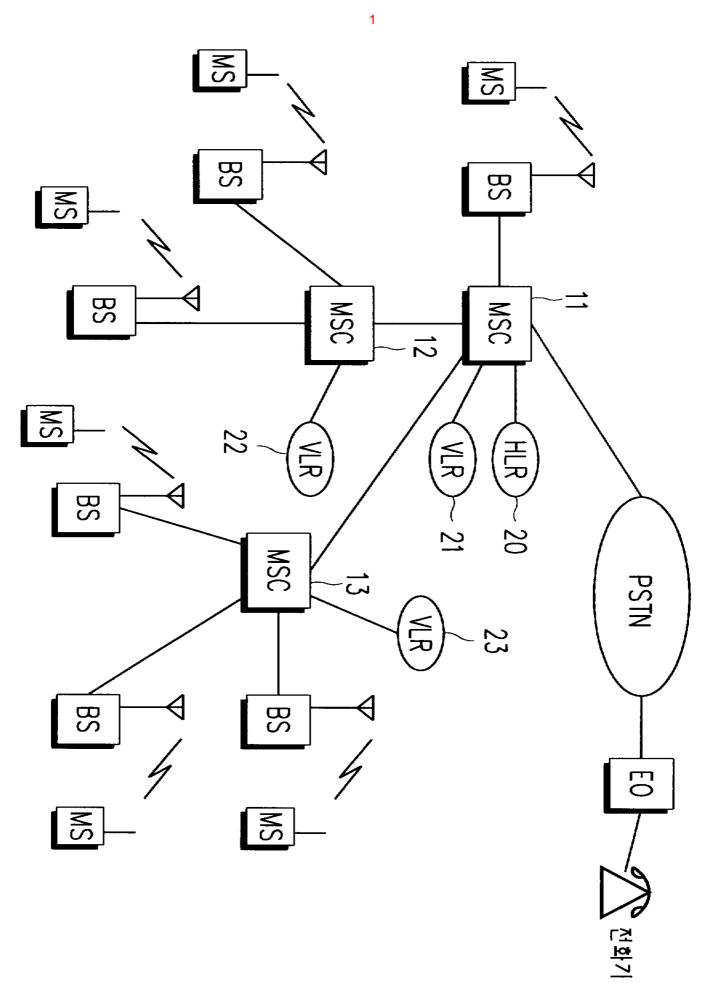
10 - 0294044

가 (VLR1,VLR2) VLR VLR (EO) VLR(VLR1) 6b 2 [ 6b 2a 1, 2] 2 b VLR VLR VLR VLR 2b 7a 7b Party A Party D , Party B,C,D  $\uparrow$ VLR Party B Party C Party D Party A SETUP CONNECT CONNECT CONECT\_ACK  $t1 \times 3$ t1 . t1 × 2 ATMVLR 가 가 (57) 1. 가 가 가

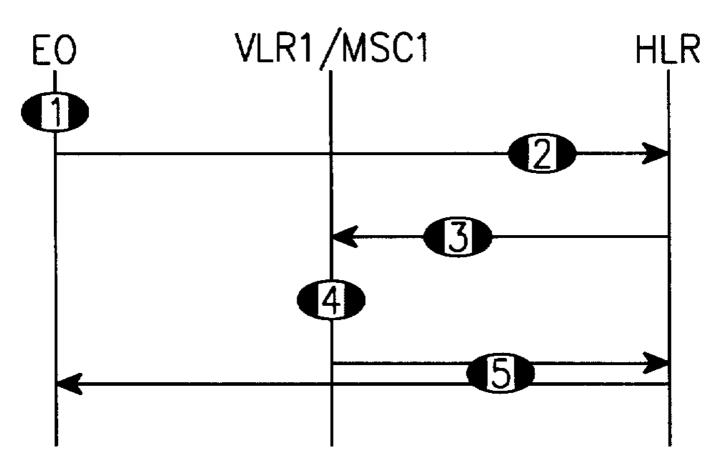
- 5 -

10 - 0294044

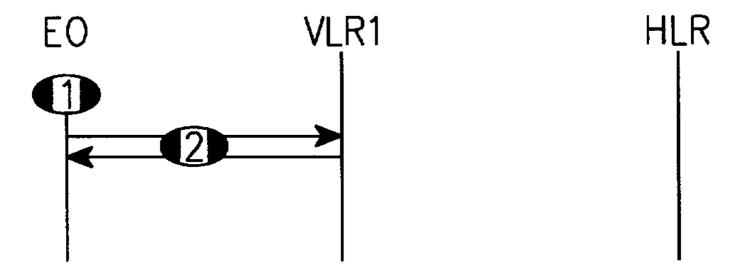
7†
1 ,
2 ,
2 .
3 .
2.
1 ,
7†
4



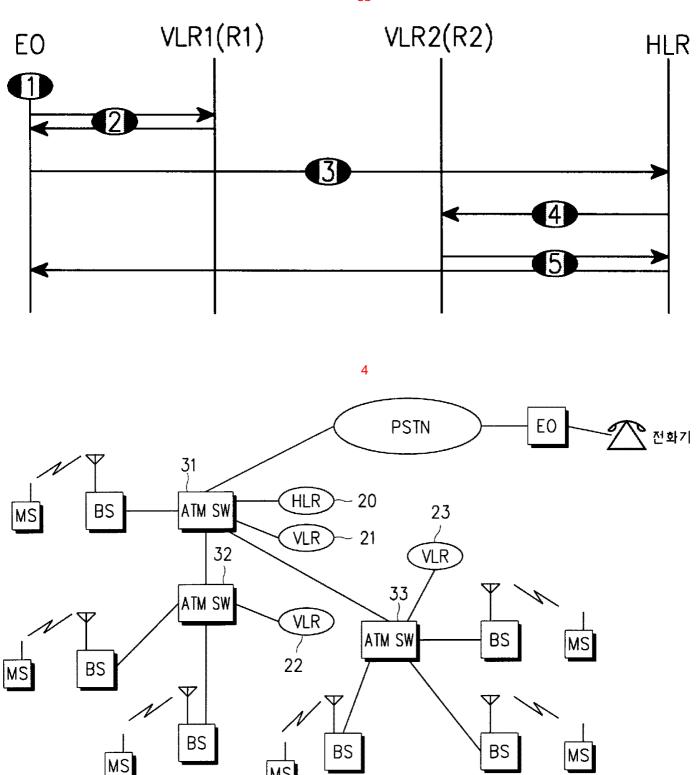
2



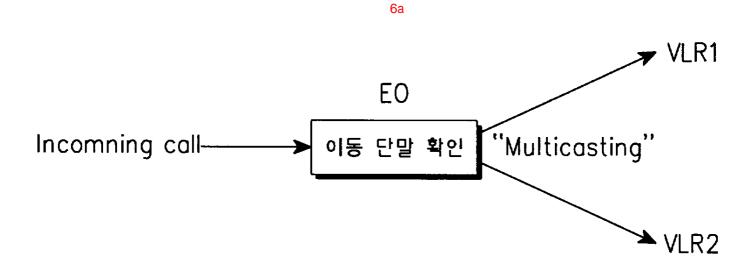
За



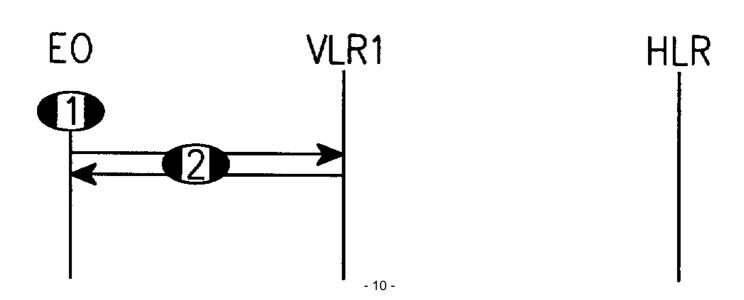
3b



이동 단말	위치 등록 정보
MIN #1	VLR1 VLR2



6b



7a

