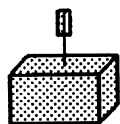
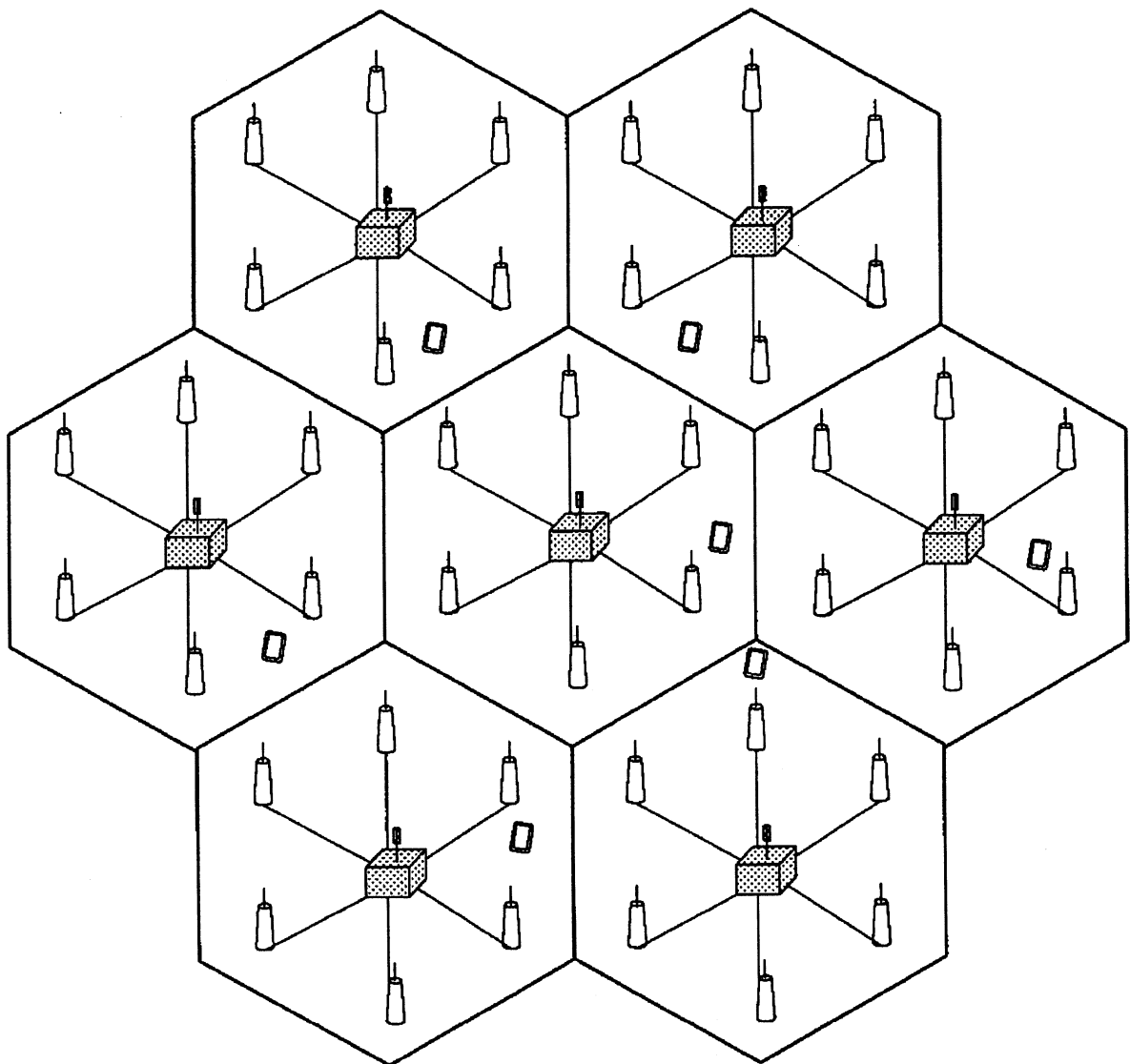


Fig. 1



Base station



Distributed antenna port



User terminal

Fig. 2

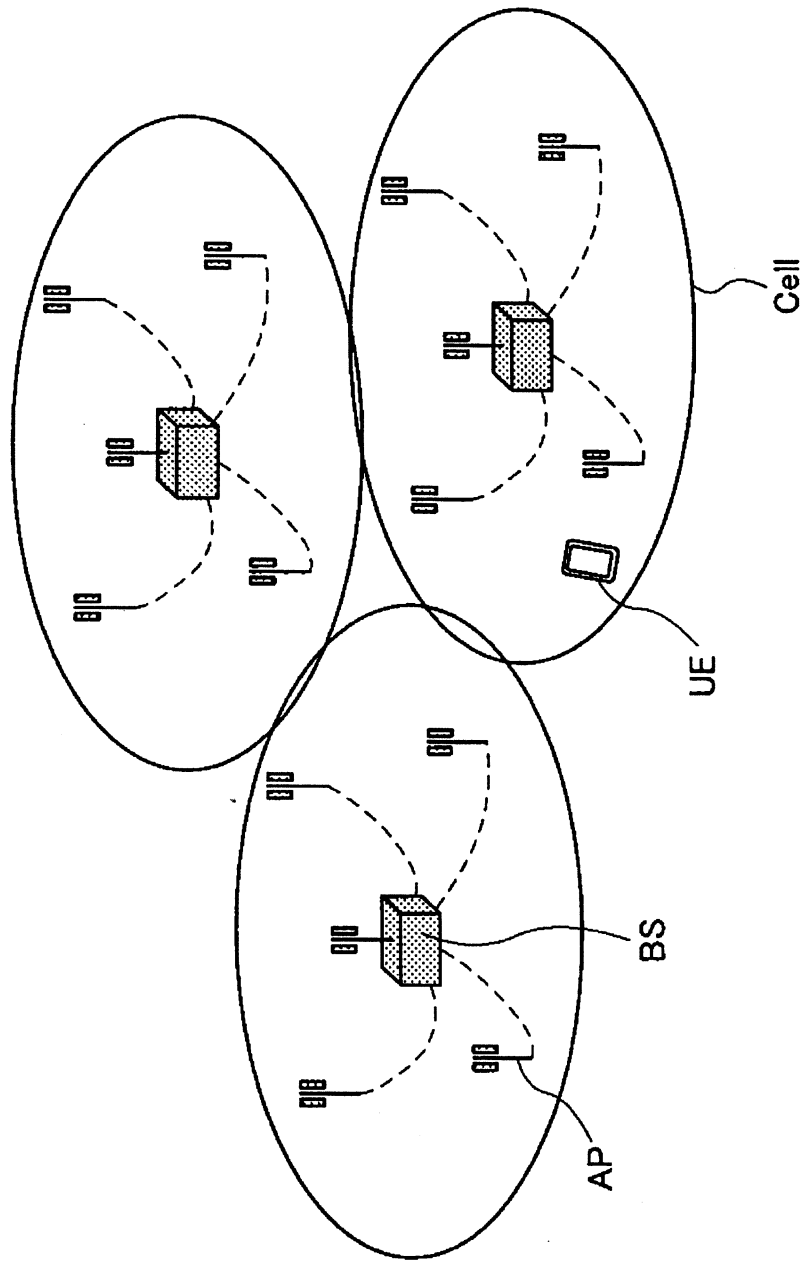


Fig. 3

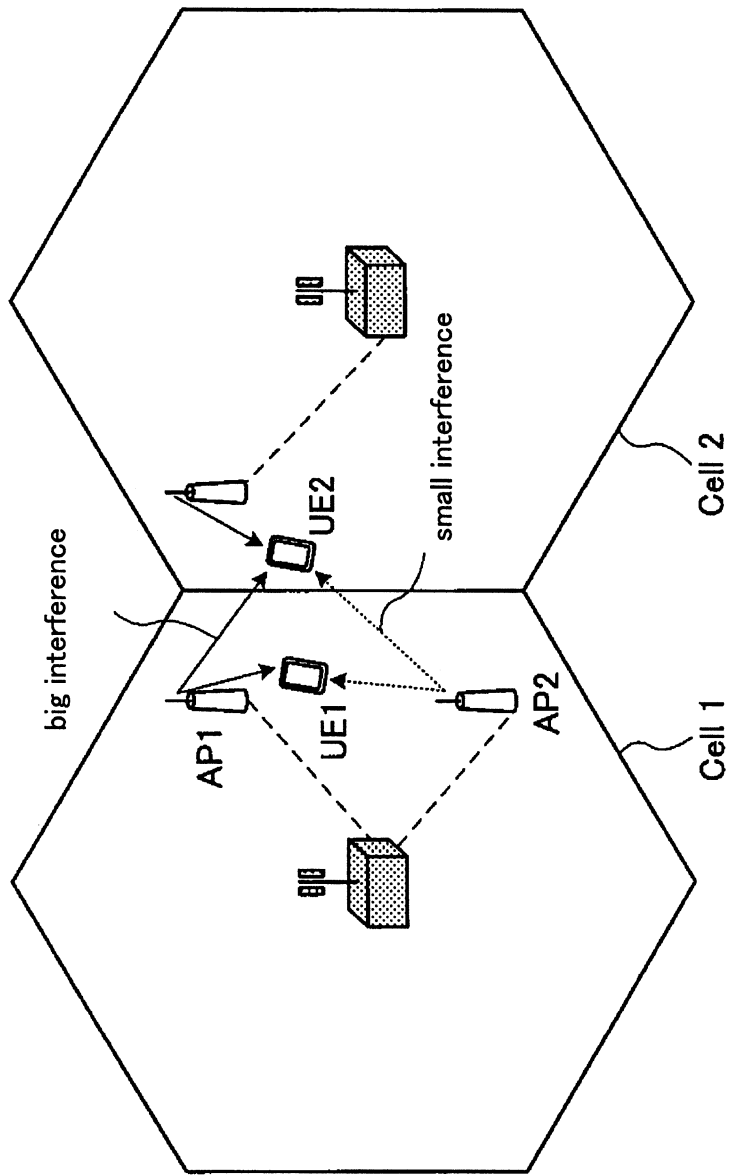


Fig. 4A

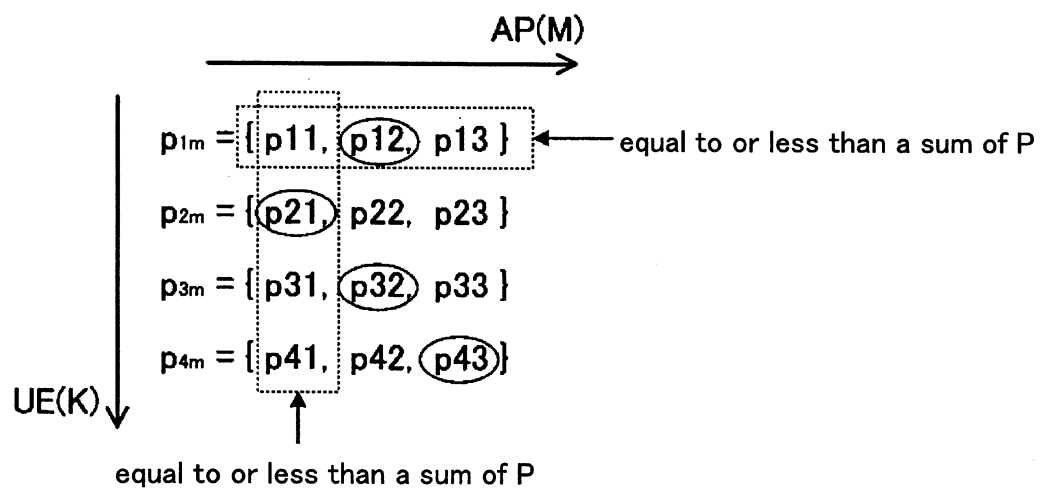


Fig. 4B

$$\begin{aligned}
 P &= \{ p_1, p_2, p_3, p_4 \} \\
 &= \{ p_{12}, p_{21}, p_{32}, p_{43} \}
 \end{aligned}$$

An arrow points from the text "equal to or less than each element P" to the element p_{32} in the set definition.

Fig. 5

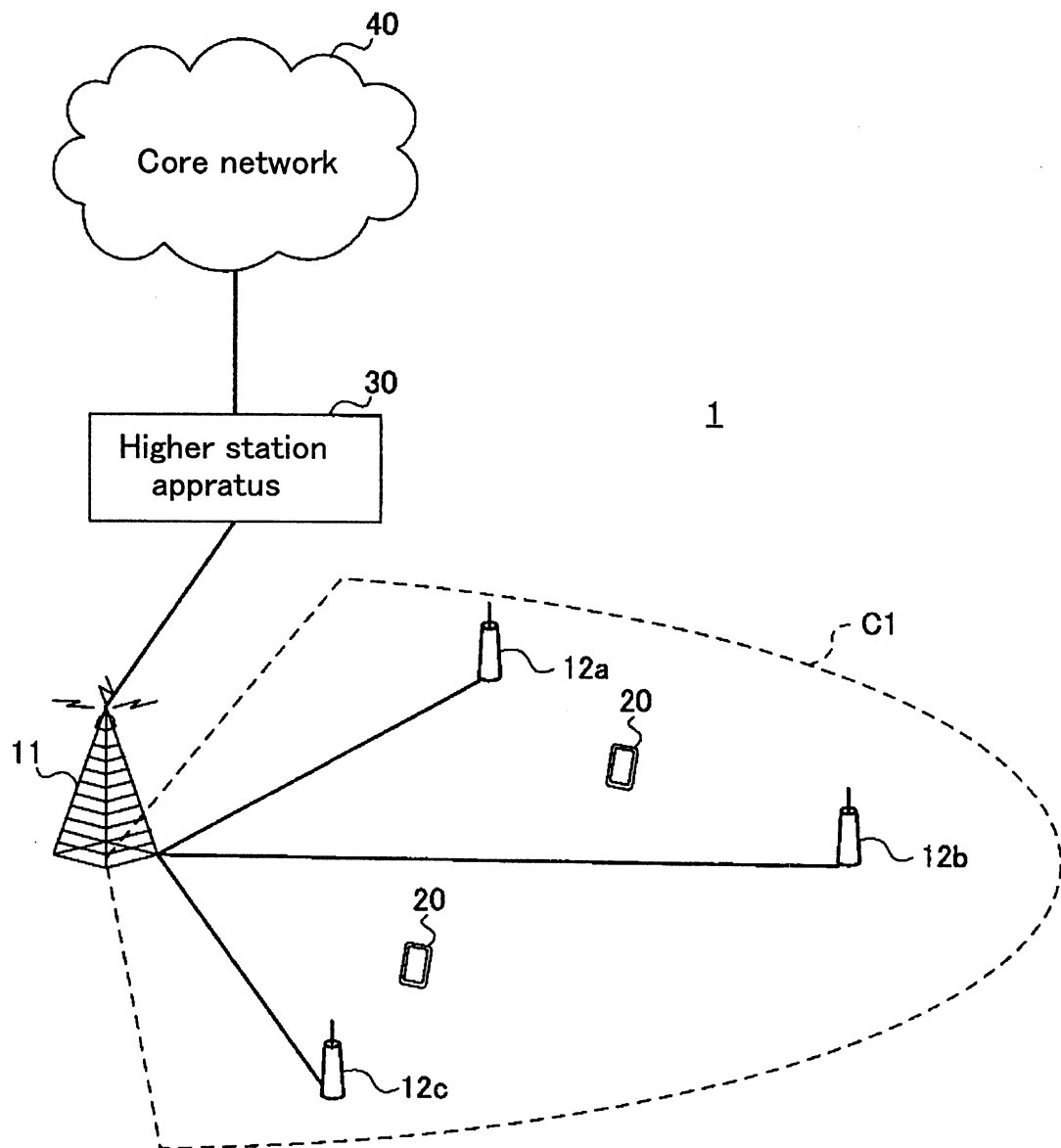


Fig. 6

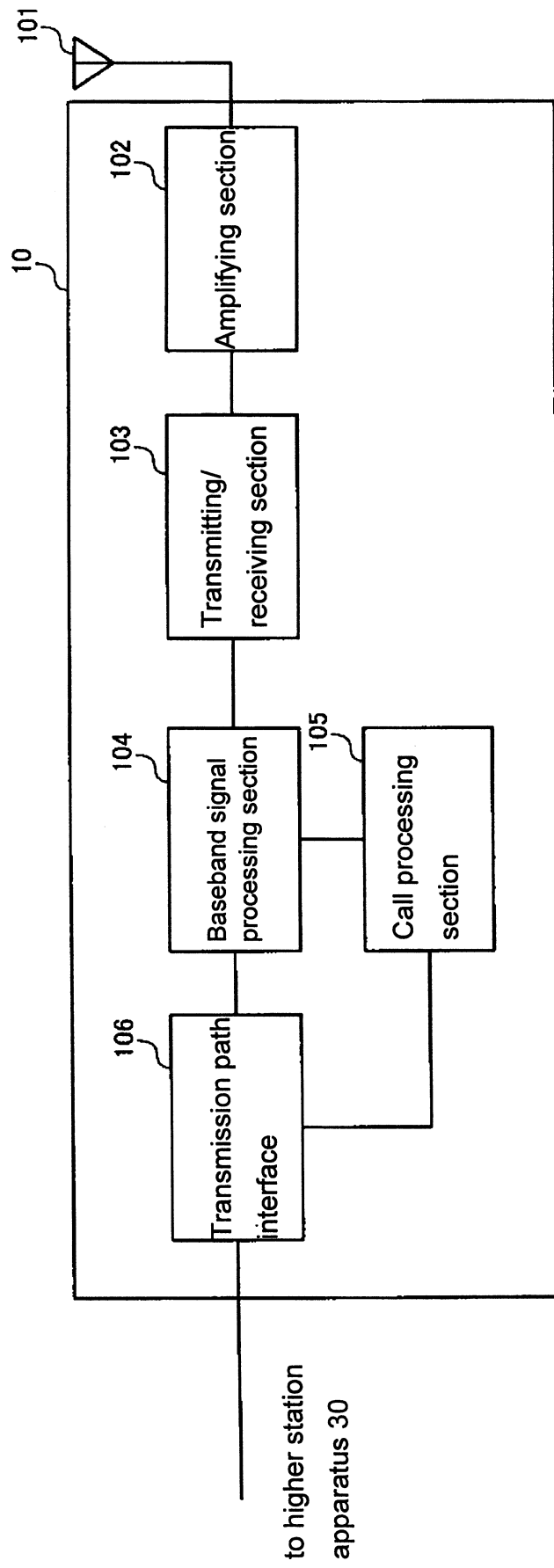


Fig. 7

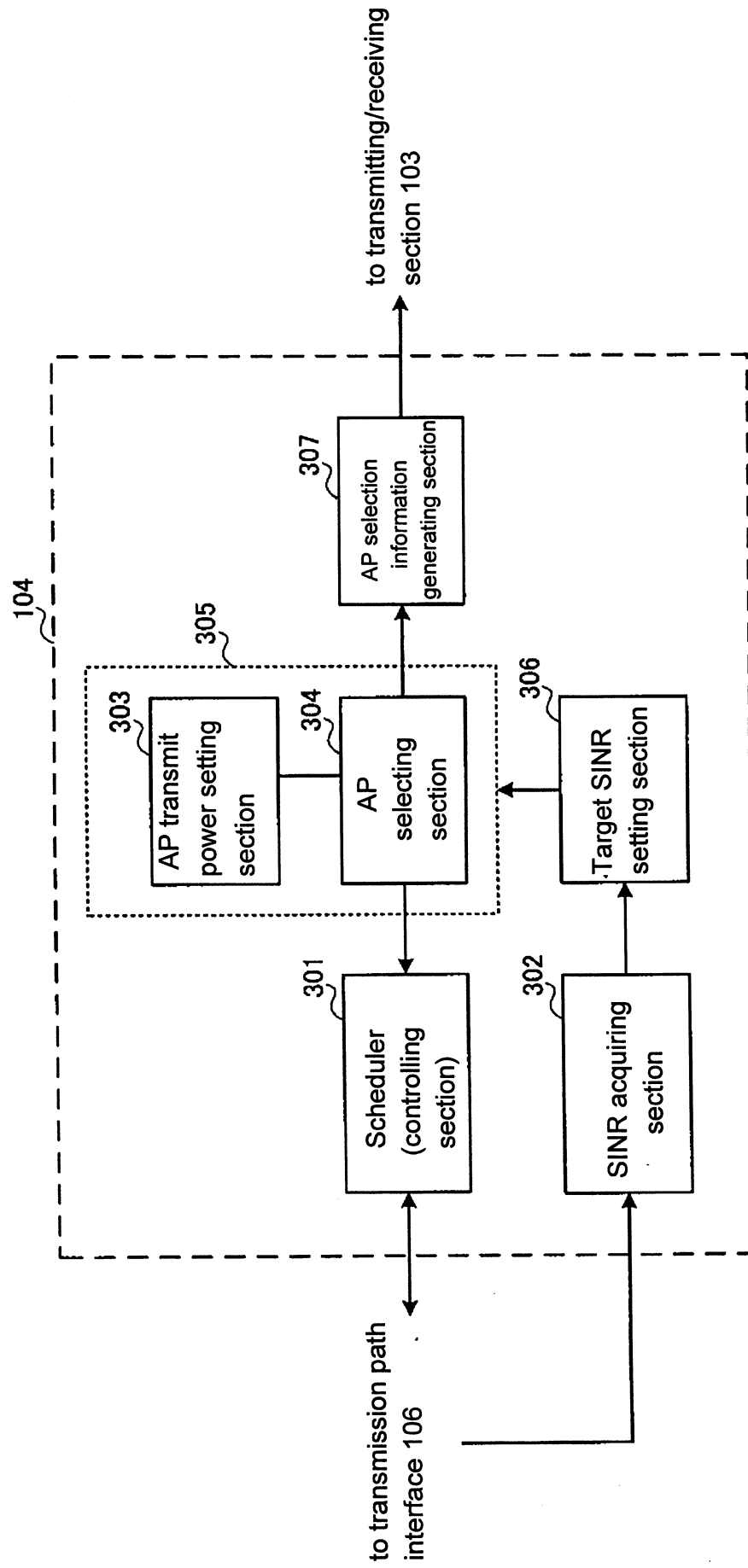


Fig. 8A

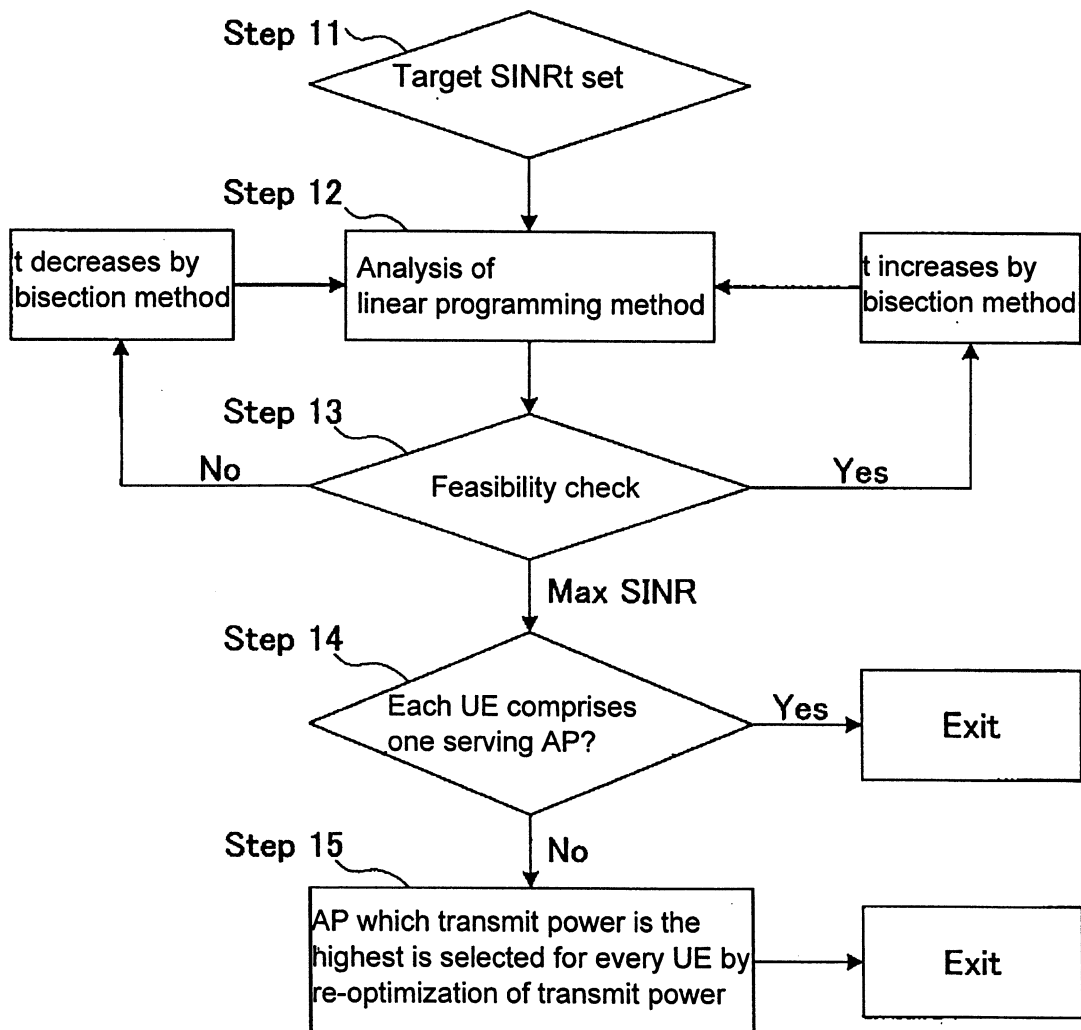


Fig. 8B

Algorithm 1 Algorithm for maxmin SINR in multicellular RRH networks

```

1. Set  $t_{\min} = 0$  ,  $t_{\max} = P \frac{\max_{t,j} |h_{ij}|^2}{\min_i \sigma_i^2}$ ,  $t = (t_{\min} + t_{\max})/2$ ;

2. Solve (2);
if (2) is infeasible then
 $t_{\max} = t$ ,  $t = (t_{\min} + t_{\max})/2$ ;
else if The solution of (2) has more than one nonzero entries in  $p_{im}$ ,
 $\forall i = 1, \dots, K$  then
Solve (3);
if (3) is infeasible then
 $t_{\max} = t$ ,  $t = (t_{\min} + t_{\max})/2$ ;
else
 $t_{\min} = t$ ,  $t = (t_{\min} + t_{\max})/2$ ;
end if
else
 $t_{\min} = t$ ,  $t = (t_{\min} + t_{\max})/2$ ;
end if

3. Goto 2.

```

Fig. 9

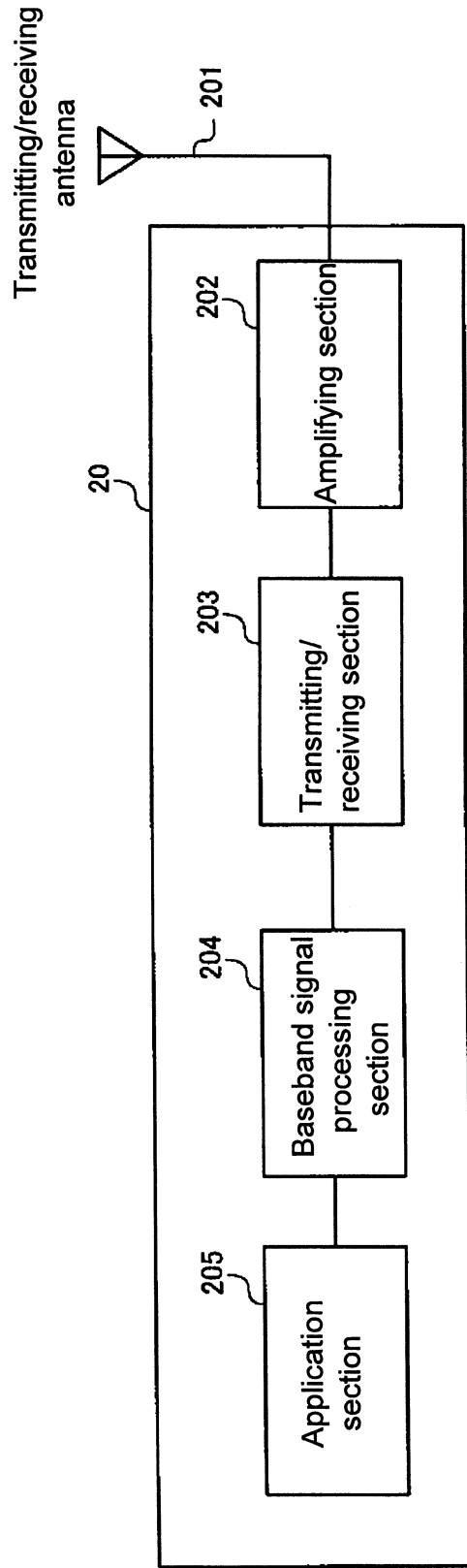


Fig. 10

