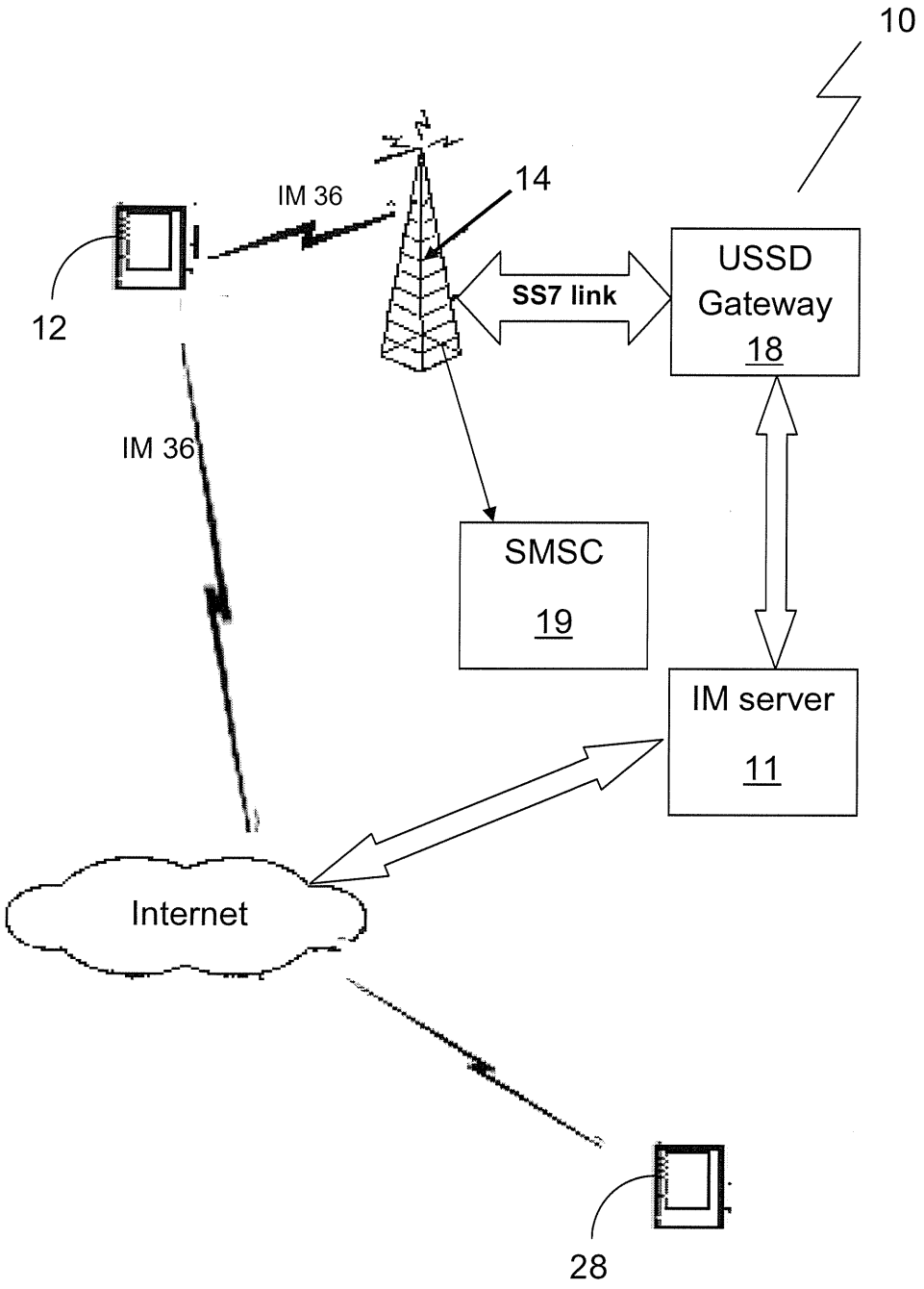
10
14
IM 36
12
SS7 link
USSD
Gateway
18
IM 36
SMSC
19
IM server
11
Internet
28

Fig. 1

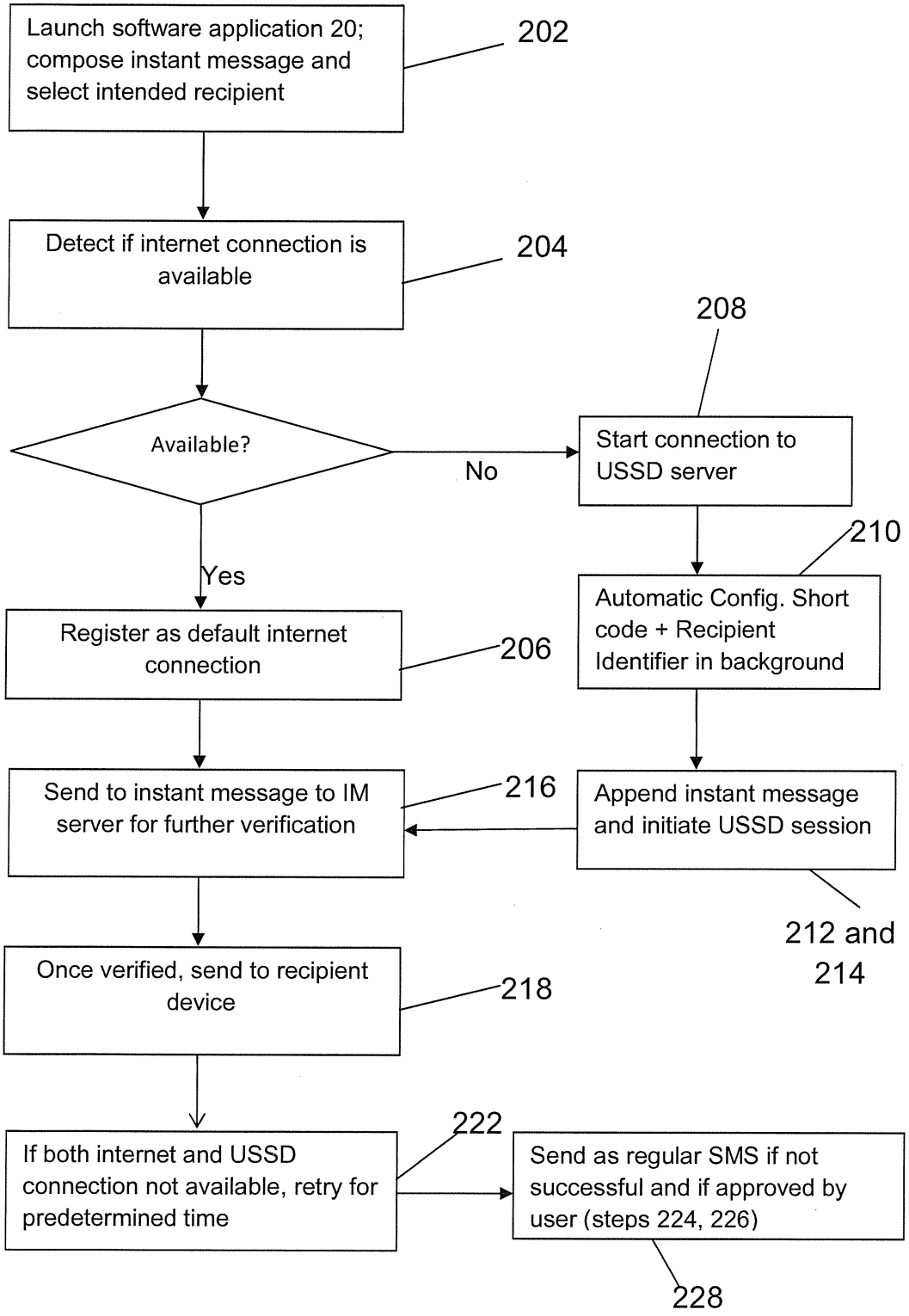
Launch software application 20; compose instant message and select intended recipient
202
Detect if internet connection is available
204
208
Available?
No
Start connection to USSD server
210
Yes
Automatic Config. Short code + Recipient Identifier in background
Register as default internet connection
206
Send to instant message to IM server for further verification
216
Append instant message and initiate USSD session
212 and 214
Once verified, send to recipient device
218
222
If both internet and USSD connection not available, retry for predetermined time
Send as regular SMS if not successful and if approved by user (steps 224, 226)
228

Fig. 2