พ์ใช้โหต with a grid dip

of Recently, I accidentally made a discovery that has led to many hours of listening enjoyment. While varying the frequency of my grid dip meter, which was placed near an FM radio tuned off-channel (about 90 MHz), I found that I could receive many different r-f transmissions. Some of those I've received are TV sound, aircraft, police, CB, 2-meter FM, telephone calls, and even WWV. I'm fas-

cinated! But how does it do it? —Dennis Cole, Lincoln Park, Mi

You have created a frequency congrier stage. The grid-dip meter is the local oscillator, and some nonlinear element inside the receiver is acting as a, mixer. The result is an additional heterodyne process Exactly where the heterodyning is taking place is hard to determine, because one variation on Murphy's Law states that a linear circuit will often behave non-Furthermore, just imagine linearly how many pn junctions there are inside the radio's case, each of which can act as a diode mixer Interestingly. you are receiving AM as well as FM transmissions. I imagine that is the result of slope detection. A variation of Syour technique has been used by Fimany shortwave listeners who copy

of another receiver to the proper frequency, they could reinsert a "carrier" for proper detection Happy Listening!

상 CW and SSB signals on shortwave k portables lacking blo's. By tuning a k signal generator or the local oscillator