



Figure 1.21 A, Prime lens. B, Zoom lens with motor attached. (Reprinted from the *Panaflex Users Manual* with permission of David Samuelson and Panavision Inc.)

### Magazine

A *magazine* may be described as a removable, lightproof container that is used to hold the film before and after exposure. Each camera uses a different type of film magazine, and some cameras don't even use magazines. In any film magazine or camera, the area that holds the fresh, unexposed raw stock is called the *feed side*. The area that holds the exposed film stock is called the *take-up* side. A further and more complete discussion of types of magazines and the procedure for loading and unloading them can be found in Chapter 3.

### Motor

The three main types of camera motors that have been used throughout the years are variable, constant, and crystal. Almost all professional motion picture cameras today use a crystal motor. Today's camera motors contain a crystal that is similar to the crystal found in a quartz watch. The sound recorder also contains a similar crystal. This crystal vibrates at a precise, constant frequency, ensuring that during shooting the camera and sound recorder are running in sync so that the picture and sound will match. Most crystal motors have the ability to run at variable speeds for slow motion or high-speed filming, either by use of a built-in adjustable speed control or by using some type of optional speed control device.