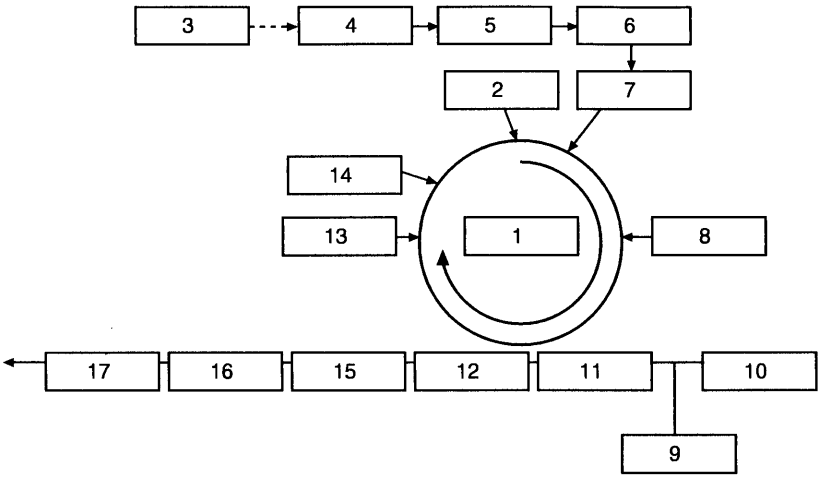
2 COPY PROCESS



1177M028AC

1. PC Drum
- Used as the medium on which a visible developed image of the original is formed.
2. Drum Charging
- A uniform negative DC charge is deposited across the entire surface of the PC Drum.
3. Photoelectric Conversion
- A CCD converts the image data represented by light reflected off the original to a corresponding electrical signal which, in turn, is output to the IR image-processing section.
4. IR Image-Processing
- The electrical signal is converted to an 8-bit digital image signal (A/D conversion) which, in turn, goes through appropriate correction before being output to the memory.
5. Memory
- The digital image signal is compressed and stored in memory. It is then output to the PH image-processing section.
6. PH Image Processing
- After going through corrections, the digital image signal is converted to a corresponding electrical signal (D/A conversion) that controls the intensity of the light from the laser diode.
7. Laser Exposure
- The laser beam strikes the surface of the PC Drum, forming an electrostatic latent image.
8. Developing
- Toner negatively charged in the Developer Mixing Chamber is attracted onto the electrostatic latent image changing it to a visible, developed image.
- An AC/DC negative bias voltage is applied to the Sleeve/Magnet Roller to prevent toner from being attracted onto those areas of the PC Drum which correspond to the background areas of the original.