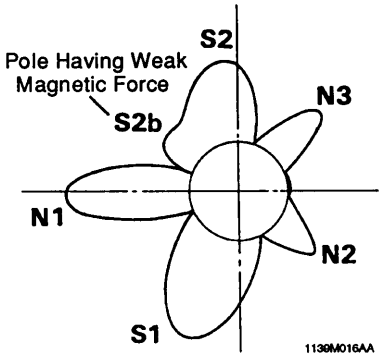
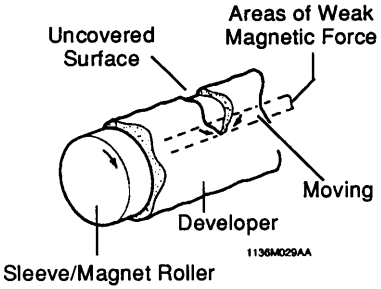
## 12-4. Magnetic Pole Positioning

- The Magnet Roller of the Sleeve/Magnet Roller of this copier has the following magnetic characteristics.




N1 : The principal magnetic pole having the strongest magnetic flux density. Therefore, when toner is attracted to the latent image, the carrier is firmly held onto the Sleeve Roller.

S1, N2: The height of the developer brush is held low so that the developer can be smoothly recycled. These poles also prevent the developer from scattering.

N3 : This pole causes the developer bristles on the surface of the Sleeve Roller to stand up straight so that their height will be regulated evenly by the Doctor Blade.

S2a : Since the gap between N3 and N1 is wide, this pole ensures that the developer is positively conveyed to the point of development.

S2b : This pole provides a very weak magnetic force. If developer is compacted and clogs at the Doctor Blade and, as a result, part of the surfaces of the Sleeve/Magnet Roller is not covered with developer, the nearby developer around S2b goes to those uncovered surfaces because of its weak magnetic force. This helps prevent blank lines from occurring on the copy.