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pdf Category:Electronic design automation Category:Digital electronics Category:Electronics engineeringThis disclosure relates to an image forming apparatus having a fixing device for fixing a toner image on a sheet. An image forming apparatus, such as a copier, a facsimile, a printer, and a combination machine thereof, is equipped with a fixing device for fixing a toner image, which is formed on a paper, on the paper. There is known a fixing device having a heating roller and a pressurizing roller, which come into pressure contact with each other with the paper (sheet) interposed therebetween. In this fixing device, a heating roller and a pressurizing roller come into pressure contact with each other with the paper interposed therebetween, and the heating roller is heated to a temperature higher than the softening temperature of the toner. As a result, the toner on the paper is softened, thereby fusing the toner image on the paper. In the fixing device of this type, an endless belt heated by a heat source is used as a heating source, whereby the heating roller is heated. An example of the belt is a belt-like heating element formed by vulcanizing a rubber material. As an example of the heating element, there is known a heating element having an elastic property, in which a heat-resistant resin substrate is provided on a metal core, an elastic rubber layer is laminated on the resin substrate, and the elastic rubber layer and the resin substrate are vulcanized to form a belt-like body. In addition, as a countermeasure for preventing a heating element from generating heat before a target temperature is reached, there has been developed a technique of, for example, superimposing a pattern of a metal foil of a low electric resistance material on an elastic rubber layer to form a ground layer on the elastic rubber layer, thereby enhancing thermal conductivity and reducing electric resistance (Japanese Patent Application Laid-open No. 2001-334520). In this technique, the countermeasure for preventing a heating element from generating heat before a target temperature is reached is premised on the ground layer not being deformed by a temperature change during a fixing operation. Accordingly, when the elastic rubber layer is thick, the ground layer is not deformed even if a temperature change is generated during the fixing operation, and the conductivity between the heating element and the metal foil cannot be prevented from being lowered. This tendency is particularly pronounced when 82157476af

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