cellulose I crystal structure can be determined by the X-ray diffraction measurement that shows a peak at $2\theta = 22.6°$.

[0064] (Average fiber diameter)

The modified cellulose fibers (I) are preferably fibrillated to have diameters in the nanometer range. Therefore, the average fiber diameter of the modified cellulose fibers (I) is preferably 1 nm or more, and more preferably 2 nm or more from the viewpoint of handleability, availability, and cost. Furthermore, the average fiber diameter of the modified cellulose fibers (I) is preferably 300 nm or less, more preferably 200 nm or less, even more preferably 100 nm or less, still more preferably 50 nm or less, yet more preferably 30 nm or less, much more preferably 20 nm or less, further preferably 15 nm or less, even further preferably 10 nm or less, and still further preferably 5 nm or less from the viewpoint of improving handleability, dispersibility, and the printing dimensional properties of the copper fine particle dispersion.

[0065] (Average fiber length)

The average fiber length of the modified cellulose fibers (I) is preferably 10 nm or more, more preferably 30 nm or more, even more preferably 50 nm or more, still more preferably 100 nm or more, yet more preferably 200 nm or more, much more preferably 250 nm or more, and further preferably 280 nm or more, and is also preferably 1,000 nm or less, more preferably 500 nm or less, even more preferably 400 nm or less, still more preferably 350 nm or less, and yet more preferably 320 nm or less from the viewpoint of improving the printing dimensional properties of the copper fine particle dispersion.

[0066] (Average aspect ratio (average fiber length/average fiber diameter))

The average aspect ratio (average fiber length/average fiber diameter) of the modified cellulose fibers (I) is preferably 5 or more, more preferably 10 or more, even more preferably 30 or more, still more preferably 50 or more, yet more preferably 70 or more, much more preferably 80 or more, and further preferably 90 or more, and is also preferably 300 or less, more preferably 200 or less, even more preferably 120 or less, and still more preferably 100 or less from the viewpoint of improving the printing dimensional properties of the copper fine particle dispersion. More specifically, the average aspect ratio of the modified cellulose fibers (I) is preferably 5 or more and 300 or less, more preferably 10 or more and 200 or less, even more preferably 30 or more and 120 or less, still more preferably 50 or more and 120 or less, yet more preferably 70 or more and 100 or less, much more preferably 80 or more and 100 or less, and further preferably 90 or more and 100 or less.