

mented also at the end by the skin or rattle of the rattlesnake.* The type belongs to the stock everywhere.

"The Apache bow was made always of the tough, elastic mountain mulberry, called par excellence, 'Iltin,' or bow wood. Occasionally the cedar was employed, but the bows of horn, such as were to be seen among the Crows and other tribes of the Yellowstone region, were not to be found among the Apaches and their neighbors of Arizona.

"The elasticity of the fiber was increased by liberal applications of bear, or deer fat and sinew was, on rare occasions, glued to the back for the same purpose.†

It is not probable that any southern tribes of the family, to which the Apache belong, ever dwelt east of the Rocky Mountains. The Athapascan sinew veneered bow is found strictly west of the Rockies, the slender variety in the Basin and British Columbia, the flat variety on the Pacific Slope. The Navajo also have adopted this type of sinew-lined bow.

The Cherokees lived in the Piedmont portion of the Appalachians in Carolina, Georgia, and Tennessee. The finest oak, ash, and hickory abounds in this region. These tribes used every variety of available elastic wood for bows, the toughness of which they improved by dipping them in bear's oil and warming them before the fire.‡ The Cherokees were Iroquoian and their bows may be taken as the counterpart of those made by the Six Nations. The Algonquin bows were similar.

The Pawnee warrior always preferred a bow of *bois d'arc*, and besides the one in actual use he would often have in his lodge a stick of the same material, which at his leisure he would be working into shape as a provision against possible exigency. Bows of this wood were rarely traded away. *Bois d'arc*, however, was to be obtained only in the South, and for the purpose of procuring it a sort of commerce was kept up with certain tribes living there.§

The Blackfeet made their bows of the Osage Orange, but they were compelled to procure it by trade from the tribes down on the Arkansas River.|| The Blackfeet are Siouan in language and dwelt in the buffalo country in northwestern Dakota. They were in the same mode of life as the Pawnees, who dwelt farther south and are of the Caddoan stock. The whole length of the Missouri River was traversed in this Blackfeet commerce. (Plate LXXXIV, fig. 2.)

The Central Eskimo, about Hudson Bay, have two kinds of bows (pitique), a wooden one (Boas's figs. 438 and 439, p. 502), and another made of reindeer antlers (Boas's figs. 440 and 441, p. 503). Parry gives a very good description of the former (II, p. 510):

"One of the best of their bows of a single piece of fir, 4 feet 8 inches in length, flat on the inner side and rounded on the outer, being 5 inches in girth about the middle, where, however, it is strengthened on the

* Whipple, etc., Pac. R. R. Rep., vol. III, p. 32, pl. 41, bow and quiver.

† J. G. Bourke, letter. Also J. G. Morice, Trans. Can. Inst., IV, 58.

‡ Timberlake, quoted by Jones, So. Indians, p. 252.

§ The Pawnee Indians, J. B. Dunbar.

|| Maximilian's Travels, p. 257.