

Thesis Title      Physical properties of Thai Aerophones and  
                    their Classification

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### Abstract

The purpose of this thesis is to study physical structures of 28 items of Thai aerophones with a view of classification of which according to that of Erich von Hornbostel and Curt Sachs established in 1914

The finding are as follows

27 Thai aerophones can fit into the classification system. Only the Sanoo, an instrument whose sound production originates from a self rotating leaf strung lengthwise to a string attached to a bow, is considered unclassified.

The physical structure of the sanoo as similar to the bow type chordophone. The mode of sound production of the sanoo is that of self-rotation of the attached leaf which is in the free tubeless aerophone type.

Since the system does not cover this type of instruments, the author has added the third mode of sound production on the existing modes of this sub-division, that is add-

ing the mode that the sound is produced by mass of air moving against a stationary souce

The author finds that the classification of free aerophones relies heavily on western concept of instruments; hence there is a certain drawback in the study of the sound production as well as the history and development of the instrument

Thus, the autor suggests a sub-division classification of the free reeds instrument of that origin, that is regarding the Kaen. Originally the Kaen was classified as free aerophone, that is, its sound is produced without tube; but he suggests it be classed in the wind instrument proper, that is a tube with side-hole ; since it is found that the pitches do not depend solely on reeds, but also on tubes.

The author finds that the aerophones with concussion reeds and conical from with bell are missing from von Hornbostel and Sachs system; therefore he suggests the inclusion of which into the system.