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)中國舞蹈史	何志浩著
) 辭海 (合訂本)	雲五丰
Chinese Music	J. A. Van. Aalst.
)中國音樂史	陳 凊 泉澤
Chinasiacha Musil	Kunt Painhard

七公五四

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FOREWORD

Included in this booklet are more than eighty photographs and drawings of Chinese musical instruments, each one briefly described;— its inventor, the materials used, the dimensions, and in some instances, the notes and intervals it produces. Other pictures show the actual use of the instruments in individual or orchestral performances.

The contents of the book ate arranged according to the method of playing these instruments: (1) blowing, as in hsiao or bamboo flute; (2) Plucking, as in chin or Chinese lyre; (3) using a bow, as in nan hu or two-string violin; and (4) beating, (percussion), as in the various kinds of ku or drums.

No attempt has been made to draw a demarcation between the instruments which are extinct and which are still in use now. Nevertheless, it is interesting to note that the eight kinds of materials used for making the musical instruments-metal, stone, silk, bamboo, gourd, earth, leather and wood-must have had something to do with the primitive life of the ancient Chinese. For instance, the rudimentary form of the silk string is traceable to moving fingers along the strings of a bow after the hunter's one-day trapping. The teapot-like gourd sheng or Chinese mouth organ, supposed to be the forerunner of the European accordion and the harmonica, might have come from sipping water from gourds by means of reeds.

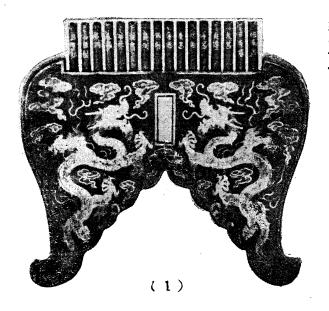
With regard to the introduction of the musical instruments, legend attributes ch'in, se (an improved form of ch'in), and sheng to Shen Nung, Fu Hsi, and Nu Wa, three alleged divine rulers of ancient China, all before the reign of the Emperor Huang Ti (2698B.C.). This naturally is incredible, owing to the lack of relics as positive evidence. However, following the discovery of the re ch'ung (single sonorous bell), bien ch'ung (bell chime), bien ching (stone chime) and other antipues in Hohan Province in 1933 and 1936, it is a well-established theory that Chinese musical instruments with a skillful workmanship, together with a sound system of musical education, must have existed in the Chou Dynasty (1100-255 B.C.)

Then more than one century later, in the reign of Han Wu Ti (140-90 B.C.), hu ch'in or the Chinese violin and other musical instruments were imported to China. These innovations were at first distinguished from the Chinese native products. But in the succeeding dynasties, notably in Sui (A.D. 589-617) and Tang (A.D. 618-904), they were not only adopted but also developed, with the result that hu ch'in and others earned a proper place in the history of Chinese classic music.

In modern China, the impact of western music on Chinese art is increasing year by year. To maintain their great cultural heritage, Chinese musicians have been engaged in improving their traditional instruments. These include the chung hu, ta hu and ti hu in the violin field and the 11-hole hsin ti and the pan yin chich mo ti in the flute field. The three hu's, in the order mentioned, can be compared with the viola, violon-cello and contrabass, while the two new flutes can produce chromatic scales. Besides, a half-tone fret has been added to the neck of the p'i p'a.

These are the features of the development of Chinese musical instruments. And this booklet presents to music-lovers a general survey of the selected musical instruments unique to China.

The publisher wishes to acknowledge his indebtedness to Messrs. Huang Ti-pei and Tsai-ping Liang of the Chinese Classical Music Society for their kind assistance in editing the materials in the present form.



據風俗通云,流在舜時(公元前二二五五年) 有之●排無係編組竹製長短不一之律管而成,長 者音低,短者音高,其音階係依「三分損益法」 計算而來●爾雅載:「大簫廿三管謂之言,長尺 四寸;小簫十六管謂之筊,長尺二寸」● 今常見之排簫多爲十六管者,左右對稱之管各 差半音,相隣之管各差一全音●編成一排,略似 差半音,相隣之管各差一全音●編成一排,略似 整體最長處約三十公分,最寬處約卅五公分, 其整體最長處約三十公分,最寬處約卅五公分, 以係古時 作校正其他樂器標準音之用。民國卅二年,政府 作校正其他樂器標準音之用。民國卅二年,政府 即四公分。每管內徑約爲八公厘,管身無按音 引用西洋樂徽里拉(Lira)位置。各管排列音位 四個(2)。

No. 1.—The Prai-hsiao (排簫) The Chinese were a long time in discovering that a tube pierced at different places may be made to produce as many sounds as there are holes by merely stopping these holes one after the other. In order to get the various sounds, the ancient Chinese used as many tubes as there were sounds; these tubes fastened together produced the Prai-hsiao, or "Pandean pipes." The first instrument of this kind was made by the Emperor SHUN; it was a collection of 10 tubes, gradually decreasing in length and connected together in a rough manner by silk cord. In subsequent ages the number of tubes was increased to 12, then to 16, and even to 24; at present, the Prai-hsiao has invariably 16 tubes. These tubes are arranged upon a frame more or less carved and ornamented; they correspond to the 12 lus and the first four lus of the grave series, and emit exactly the same notes as the bell and stone chimes,

The tubes which give the notes corresponding to the yang lus, or "positive tones," are grouped together on the left side of the instrument, the yin lus, or "negative tones," are arranged on the right side. The notes produced by the tubes, according to their position are the following:—'



(2)

The p'ai-hsiao is used only in ritual music. Two are employed at the Confucian ceremonies, placed respectively on the east and west sides of the hall. The music performed by them is exactly the same as that of the stone chime.



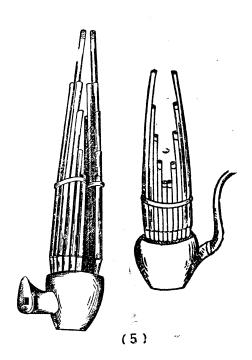
,其音域如圖(4)。 國男性多採用十七管之全簧笙或十四簧之北樂笙 歐氣吸氣發音相同,學習不甚困難。現代化國樂 笙爲唯一能吹出和聲之管樂器,採用穿振簧,

樣有創製方笙擬議,情試製未竟,以上兩種笙今後有創製方笙擬議,情試製未竟,以上兩種笙今 今制之笙,又名鳳笙,皆十七管,葵時二 空斗多用銅製,十七管中百萬, 近等等數而分有南樂笙與北樂笙兩種。南樂笙較 。另有全簧笙,則十七管均有簧,能轉五個調。 。另有全簧笙,則十七管均有簧,能轉五個調。 。另有全簧笙,則十七管均有簧,能轉五個調。 一類樂器。 一類樂器。 一類樂器。 一類樂器。 一類樂器。 一類樂器。 一類樂器。 一類樂器。

(3)

No. 3.—The Sheng (笙) is an instrument intended to symbolise the feng-huang 鳳凰) or Phoenix. The body or wind-chest is made of gourd, or simply of wood, and in its upper part tubes of different length are inserted. The length of the tubes does not, however, make the sounds graver, The tubes in the lower portion are furnished with reeds exactly like those of accordions, a little above the reeds the tubes are pierced so as to prevent their sounding, except by stopping the holes.









告為C獨,其音或如圖(8)。 市有四孔,後有二孔,頂端另有一吹孔,發 形,前有四孔,後有二孔,頂端另有一吹孔,發 那者名雅燻,小如鷄子者名頌坻。常見者多作地 明古姓城,屬八音中之「土」類樂器。大如雜 無據傳爲炮裝時(公元前二七○○年)所創。

No. 6.—The Hsuan (燻) Chinese ocarina was invented by P'ao Hsi some 2,700 years before our era. It is a reddish-yellow one of baked clay or porcelain, pierce with seven holes: one at the apex to blow through, four in front, and two behind.



(9)

留。 医约士五公分,音如思 是约士五。五公分,音如思 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由 是约士五。五公分,由

No. 9.—The Chih (院) is a flute measuring about 35.5 cm. in length. It is now blown transversely, but was formerly blown in the middle. The number of holes varies between 5 and 10, and even more. It has gradually become obsolete, Its place being taken by simpler instruments.





(11)

No. 10.—The *Hsiao* (簫) is said to have been invented by a certain 丘仲 (CHIU CHUNG) during the Han dynasty.

I This flute is a tube of dark brown bamboo, measuring about 60 cm in length. It has five holes above, one below, and one at the end, through which it is played. Flutes of this kind were formerly made of copper, of jadestone, or of marble, such materials being thought less liable than wood to be affected by changes of temperature.

(10)



管,古時稱筦,據呂氏 教一。六公分。市上有售 教一。六公分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分,前有七孔, 與竹管之分。市上有售 和,長約卅四公分。市上有售 之福州竹管音域如圖(15



(13)

No. 13.— The Kuan (管) is a small tube about 34 cm long and 11 cm in diameter. It has seven holes above and two below. It is blown by means of a coarsely made reed inserted at the upper end. It is used mostly in funeral or marriage processions.





No. 16.—The Ti (笛) is the flute ordinarily met with in China. Full length 68 cm, 2 cm of diameter. It is a tube bound round with waxed silk and sometimes ornamented with tassels. It has eight holes: one to blow through, one covered with a thin reedy membrane, and six to be played upon by the fingers. There are, besides, several other holes at the end, but these are of no practical use except to attach the silk tassels and other ornaments.



No. 19.—The *Tuan Ti* (短笛) Short Chinese flute. length 48 cm, tube diameter 16 mm. *Tuan Ti* is a flute like piccol. Lowest register is C.



(19)

No. 21.—The *Hsin Ti* (新笛) or New eleven holes Chinese flute made either with bamboo or wood was invented by Ting Hsieh Ling. (丁燮林) This new instrument with eleven holes was officially recognized by Academia Sinica in Shanghai at 1936. Full length 67 cm and 2 cm of diameter. *Hsin Ti* produces three octaves complete chromatic scale. Tone quality like European flute.



(22)

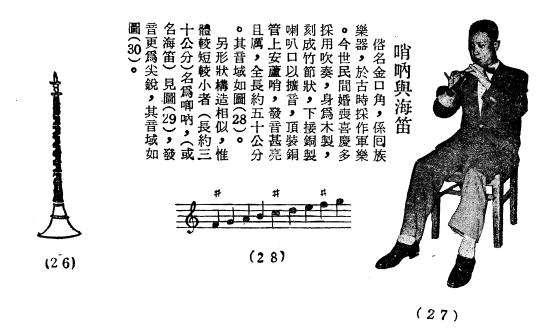






中音階膜笛,係青年國樂 一半,使其發出半音,多年 有套管,遇奏半音時,在 有套管,遇奏半音時,不是四 十四公分,內徑一·八五公 一半,使其發出半音,經中央標準 有套管,遇奏半音時,右大 有套管,遇奏半音時,右大

No. 24.—The Pan Vin Chieh Mo Ti (半音階 膜笛) It is a chromatic flute with membrane covered on one hole. This new chromatic flute was invented by Chuang Pen Li and authorized by the National Bureau of Standards as new Chinese instrument. It is made by plastic tube, length 44 cm, diameter 1.85 cm, with 8 holes including one for blowing and other one for covering membrane. A double slidable tube inside of the main tube is placed, a key controls the movement. When a half tone is wanted just push the key then the holes of the main tube will be half covered and a half tone is produced.



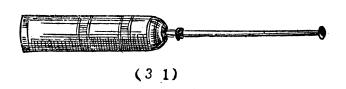
No. 26—The So.na (哨內)—known to foreigners as the "Chinese clarionet" The so.na consists of a wooden pipe fitted with a copper bell. It has seven holes on the upper side and one on the lower for the thumb. The mouthpiece is a small reed (like that of the European oboe) affixed to the upper end.

There are two varieties, differing only in size; the smaller kind is called 海笛 Hai-ti. (No. 29) The tunes played on this instrument at processions are in themselves very pretty and original.





(29)



No. 31—The *Hac-t'ung* (號筒) is a long cylindrical instrument having a sliding tube, which can be drawn out when wanted for use. There are two distinct varieties. The first comprises instruments off different sizes made of wood and covered on the outside with copper; they are exclusively used at funeral processions and emit only one long grave note, which is heard at a long distance. The second variety includes instruments made of copper only; they are of a less diameter than the first and are used for railitary purposes.

喇叭 ◆ 札角 中○○公分,亦為古時 一○○公分,亦為古時 一○○公分,亦為古時 一○○公分,亦為古時 一○○公分,亦為古時 一○○公分,亦為古時 一○○公分,亦為古時 中國(32)。 「明叭又名馬吹。或稱 中國(33)。

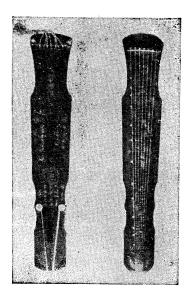


No. 32.—The La-pa (喇叭) is a long trumpet with a sliding twee similar to the has-tung. It gives four notes, C, G, C, E, and is properly a military instrument Another variety of the la-pa is crooked, and therefore is called 利角 (cha-chiao No. 33); it is of various sizes and is used at wedding processions.



根據爾雅疏引琴操記載,琴係伏根據爾雅疏引琴操記載,琴係伏根據爾雅疏引琴上、武王(公元前一二二年)各增一絃,成為七絃琴,但所增之絃係多了Sol. La 兩個低音,仍為五聲音增。此外歷史上的有九絃中琴與廿七絃大琴之說,他一般之間「琴」,係指七絃琴而言。 琴,精選桐木製造,據廣雅載:長三尺六寸六分,廣六寸(如以今尺度之則全長一二六、五公分,最大三個徽。琴體各部均有專名,演奏法甚繁,且有專譜及專用指法符奏法甚繁,且有專譜及專用指法符奏法甚繁,且有專譜及專用指法符奏法甚繁,且有專譜及專用指法符數,音域計有四組,發音渾樸蒼厚細不一之絃七根,零面近外沿處有中三個徽。琴體各部均有專名,與國樂重要資料之了。

No. 34—The Ch'in (琴) is one of the most ancient instruments, and certainly the most poetical of all. It was invented by Fu Hsi, (2582 B. C.) who called it ch'in, referring to restriction, prohibition, because its influence checks the evil passions, rectifies the heart,



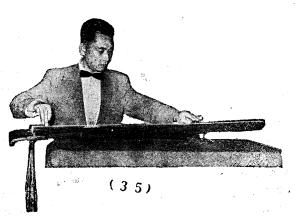
(34)

and guides the actions of the body. The dimensions, the number of strings, the form, and whatever is connected with this instrument had their principles in Nature. Thus, the ch'in measured 3.66 feet or $\frac{366}{10}$ of an inch, because the year contains a maximum of 366 days; the upper part was made round, to represent the firmament; the bottom was flat, to represent the ground; and the 13 stude stood for the 12 moons and the intercalary moon.

The chin of the present day retains the primary form, These are seven strings which pass over a bridge near the wide end, and then through the board, and are tightened by nuts below; at the smaller end they are tightened on two pegs.

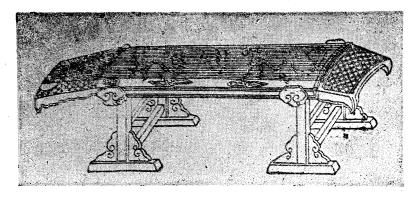
The 13 studs should be of metal, the board of t'ung (桐) wood and the nuts of marble or jadestone; and the silk should come from some particular place.

The ch'in is used for what is called elegant music (雅樂) It is supposed to be the special instrument of the educated classes; and yet, it is somewhat neglected by the present generation, being scarcely met with except at imperial ceremonies. This may be attributed to the fact that playing on the ch'in is surrounded with difficulties enough to deter the most willing leaners. The notation, for instance, is quite peculiar: each note being a compound of several simple characters, so arranged as to convey at once to



the eye of the performer the note to be played, the string to be chosen, the finger to be used, etc.

There are numerous Chin notations books still kept in good conditions in Taiwan which are available to those who like to take research works on the problems of Chinese classical music.



(36)

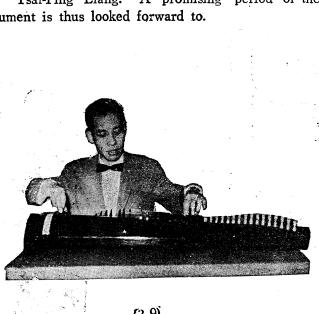


No. 36—The Sê (瑟) is said to have been invented by P,ao Hsi (2852 B. C.) (庖犧) and to have had originally 50 strings. It is recorded that "when a certain Miss Su (素女) was one day performing on the sê in the presence of the Emperor Huang Ti (2697 B.C.) (黃帝) the strains of the instrument impressed him so deeply and rendered him so sorrowful that he forthwith ordered the number of strings to be reduced by one-half".

The $s\hat{c}$ is made on the principle of the *ch'in*, and, like that instrument, has been made the subject of numerous allegorical comparisons. The number of strings has varied, having been sometimes 27 or 25, sometimes 19 or 23; but the $s\hat{c}$ now in use has 25 strings. Each string is elevated on a movable bridge. These bridges represent the five colours: the first five are blue, the next red, the five in the midle are yellow, and then come five white, and lastly five black



No. 38.—The Cheng (筝) or the Chinese zither, of Se family. It has 16 strings stretched over 16 frets on an oblong wooden sound box. It has been said to have originated in the Chin (秦) Dynasty (221-206 B. C.) The Cheng is measured 180 cm long and 30 cm wide on 13 silk stringed body and 120 cm long with 18 cm wide on 16 steel stringed body. It sounds like the combination of harp, guitar and piano. The cheng which used today in Japan is called "Koto". South Korea and Vietnam were all originated from China. Recently, the instrument is vigorously revived by Tsai-Ping Liang. A promising period of the instrument is thus looked forward to.

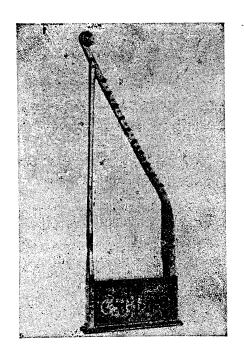


,由於梁在平教授等之研究提倡,愛好者日衆,已有專用指法及專譜,可以獨奏並參加合奏,學習不甚困 ·面弧度較大之十六絃鋼絲箏,如圖 八〇公分,寬約三十公分,琴面弧度較小之十三絃絲絃箏 有三組音域。 (39)。前者發音渾厚樸實,後者鏗鏘悅耳。均採桐木製造





(3 9)



No. 41—The Kong Ho (箜篌) "Chinese harp" was invented by Ho Tiao (侯調) in 140 BC. Formerly Kong Ho was played with 25 strings, now only 22 strings.

(41)

至七一三年)裴各兒哈牧用手指置奏,品位較少,唐初(公元六一八今之新疆省地)傳入。初用木撥開帝(公元前一四〇年)時自西域。根據崔豹古今注云,琵琶係漢武

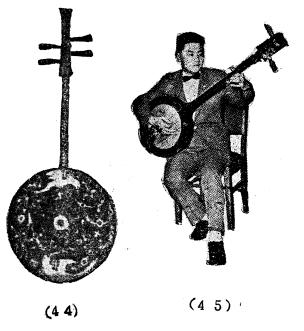


No. 42—Thd PiPa (琵琶) or "balloon guitar," is about 110 cm long, and 33 cm wide in the body. It has four silk strings which are said to represent the four seasons. This and some other allegories enforce the belief that the pipa has a more or less ancient origin, but the date of its introduction is not known with certainty.



(42)

阮 咸



No. 44—The Ren (阮) It is a plucked string instrument made of hard wood. Ran was invented in Ch'in dynasty by Ran Hsien. (阮咸) There are 17 frets on the ncck, with four strings two are tuned in A and the other two are tuned in D. Whole length of the instrument is 110 cm.



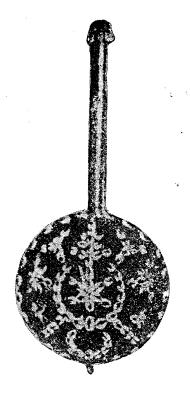
No. 47—The Yuch-ch'in (月琴) or "moon guitar," is so called because the shape of the body resembles a full moon; there is a variety, however, the body of which is octagonal. The neck, which is short, is furnished with frets for the convenience of the player. The four strings are tuned in pairs at the distance of a fifth. In some places the strings are made of copper instead of silk. This instrument is used, together with the p'i-p'a or san-hsien, to accompany ballads, songs, etc.





(47)



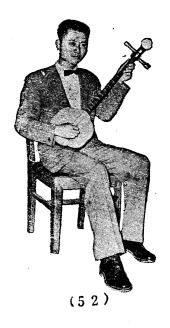


(49)

No. 49—The San.hsien (三絃) "or three-stringed guitar," has a shallow cylindrical body, the top and bottom of which are covered with snake skin. It has a long neck (without frets) and three strings, which are tuned sometimes D. A. D. but more frequently A. D. A. It is sometimes played with the finger, but oftener with a plectrum It is one of the favourite instruments of street ballad-singers.







传》、 (54)。 (54



No. 52—The Shuang-ch'in (双琴) is an octagonal guitar with a long neck furnished with frets. It is made of hard wood, and has four strings tuned in pairs, with the distance of a fifth between the two pairs. It is plectrum; but it is now rarely used, the cost placing it beyond the reach of ordinary musicians.





No. 55—The Yang-ch'in (楊琴) or "foreign harpsichord," has the form of a rectangular, trapezoidal, or oval box, about 100 cm long, 45 cm broad, and 10 cm high. When the lid which covers and protects the sounding-board is removed, one finds a range of fine metallic wires, disposed in sets of two, three, or four to each note, decreasing in length from the base upward, and fastened at both sides by nails. On the sounding-board there are two bridges, perforated with seven or eight holes each, over and under which the strings are stretched; and the strings which pass over the first bridge have to pass through the opposite holes of the second bridge, and vice versa. There are ordinarily 56 sets of strings, 14 passing over the right bridge and through the holes of the left bridge, and 14 passing over the left bridge and through the holes of the right bridge. This arrangement consequently affords four series of notes, one on each side of each bridge; but only three series are in general use. The series of notes given by the strings on the right side of the right bridge is not used.



把位,用音亦不過九數。民元以後經周少 劉天華諸氏,逐漸在結構及指法弓法上改 者名爲南胡。民元以前,南胡用指僅守





No. 57—The Nan Hu (南胡) or two stringed violin, became very popular all over China since 17 century. What people used in the southern part of China called Nan Hu. Body of the instrument is made of hard wood instead of bamboo. Length of the arm is about 85 cm.

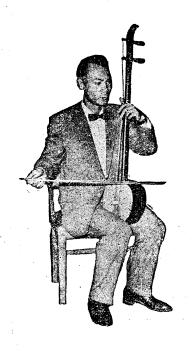
電臺音樂組創定。在現代化國形。係民國二十六年中央廣播十一公分,琴胴或亦作正八角六角形,其兩邊相對之直徑約 發音空曠豪放,較南胡低四度

No. 59—The Chung Hu (中胡) Body and arm are larger than Nan Hu, It is second one in Hu Ch'in family, equivalent the viola in violin family. Arm long 92 cm. and bodys diameter 11 cm.





(59)



音域如圖(62)。 音域如圖(62)。 本現代國藥所創製。 本現代國藥所創製。 在現代國藥所創製。 在現代國藥所創製。 在現代國藥所創製。 在現代國藥所創製。 在現代國藥所創製。 在現代國藥所創製。 在現代國際國中有似 在現代國際國中有似 在現代國際國中有似 在現代國際國中有似

No. 61—The Ta Hu (大胡) Third in Hu Ch'in family was invented only in 1937 by artist of the China Central Broadcasting Station. It is used in modern Chinese orchestra as violoncello. Whole length 105 cm.



(62)

(61)

No. 63—The Ti Hu (低胡), The biggest in Hu Ch'in family equivalent the contrabass in the orchestra. It is played with a bow some times also with pizzicato. The whole length is 160 cm.





(63)



(65)

No. 65—The Yu Hu (粤胡) Same form like Nau Hu but smaller. It is used only in Cantonese music. The tone quality is very sharp because one of the string is using violin E steel string.

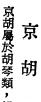


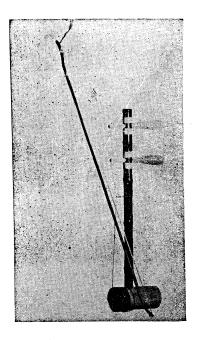
No 67—The Yeh Hu (椰胡) Two-string Hu Ch'in family instrument with the body of half cocoanut shell. Yeh Hu has different size.





(67)





(69)

被名為京劇後,其伴奏之十八世紀)皮簧盛行北方片、世紀)皮簧盛行北方為其伴奏樂器,清中葉(七年)雜劇肇始,胡琴即七年)雜劇 京胡係竹桿竹胴。 於二胡及四胡。 主要胡琴名爲京胡。 惟因琴桿甚短,用指不皮,出音甚爲響亮尖銳 元朝

No. 69—The Ching Hu (京胡) Ch'in used in Peking for accompany Peking opera called Chin Hu. It is a Chinese violin has a hollow cylindrical body one end of which is covered with snake skin, while the other is left open. The body is pierced by a long arm, to which attached two silk strings. The bow passes between the strings. Chin Hu is made of bamboo.

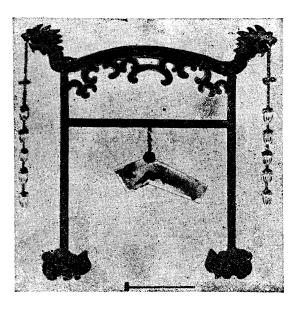
材之南^研 料件方琴四 ^有 現 一 十 裝 把 兩 毛 於

No. 70-The Se Hsien Hu (四絃胡) Also called Se Hu. Same construction as Nan Hu but with four strings. These strings are tuned, the first and third in A, the second fourth in D. The bow passes between the strings, so that it requires close attention to play without touching the wrong string.





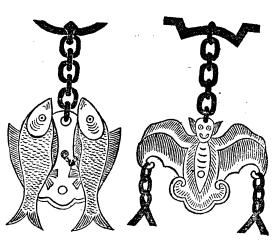
(70)



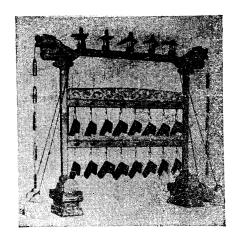
特 內 學為石製,傳為帝學時便所 學為石製,傳為帝學時便所 學為石製,傳為一次 是之一邊名為居,長約六十五 長之一邊名為居,長約六十五 人公分,較短之一邊名為何,長 於五十公分,厚約五公分。短 之下部名為鼓,為敲擊之處 為五十公分,厚約五公分。短 之下部名為鼓,為敵擊之處 (74)名歌磬,今有改用金屬鑄 造者。

(72)

No. 72—The Te-ch'ing (特整), or "single sonorous stone," is a stone cut in the shape of a carpenter's square, and supposed to render the sound of the triple octave below huang-chung, The side which is to be struck by the performer's hammer measures 65 cm, the other side is only 50 cm in length. It is suspended in a frame by means of a string passing through a hole bored at the apex. It is also known under the name of 離營 (li-ch'ing), perhaps on account of its sound being so deep. Its place at the Confucian ceremonies is outside the temple, on the left side "Moon Terrace." Its use is to give o single note at the end of each verse, in order to "receive the sound" Formerly the stone was cut in a fantastical form, representing some monstrous animal. fish, dragon, or the like According to the "Illustrated Description of the Instruments of the present Dynasty" there are 12 Te-ch'ing, one corresponding to each of the lus; and they are emoloyed only at the religious and court ceremonies.



(74)



圖(76)。 與其製造材料與特勢 時(公元前二三五六 時(公元前二三五六

(75)



No.75—The *Pien-ch'ing* (編磬) or "stone-chime," is an instrument composed of 16 stones suspended on a frame. The stones, which measure 49 cm one way and 33 cm the other, are all of equal length and breadth. and differ only in thickness; the thicker the stene the deeper the sound.

The pien-ch'ing is exclusively used in court and religious ceremonies; it would be considered a profanation to use it elsewhere. There is one of these instruments in each Confucian temple and imperial place of worship in the Empire, and no doubt the imperial palaces and residences contain many of the best kind; but it is impossible to find a complete pien-ch'ing for sale, although separate stones may be found.

At the Confucian temple this instrument is placed on the west side of the temple, on a line with the *Peching*. Its special part is to give one sound at the end of each word, in order to "receive the sound" and transmit it to the next word.

It is not known to whom and to what dynasty the invention of the pien-ch'ing may be attributed, but there is no doubt that it is one of the most ancient instruments.



(78)為明時製。 鑑為古時八音中之「金」類 製。舜時盛行製鐘,大者謂之 製。舜時盛行製鐘,大者謂之 製。舜時盛行製鐘,大者謂之 製。舜時盛行製鐘,大者謂之 與。舜時盛行製鐘,大者謂之

No. 77—The Yung-chung (鏞鐘), or "large bell," ought to be 160 cm in height and have a mouth of 80 cm diameter, gradually decreasing towards the apex. The Chinese say that was made to correspond with a very big drum; the one was. not to be used without the other, for the drum had to give the signal to begin and the bell had to announce the end of the hymn at the ceremonies. Though now no longer in use, both instruments are still to be seen. At the temple of CONFUCIUS, in the same court in which stands the hall are two small pagodas, one to the east, the other to the west of the hall and in front of it. In the east pagoda, to which access is gained by ascending a few steps, hangs a big drum, somewhat damaged by its exposure in the open air; and in the other pagoda on the west the large bell is suspended.



(78)



(79)

No. 80—The To (鐸) or "tongued bell," is an ordinary bell having either a metal or a wooden tongue, and a handle at the apex. Formerly there were four different kinds of tongued bells in use in the army.

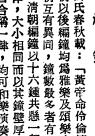
At present the to is used only by bon zes to mark the rhythm of their prayers.

(見圖79)高八一。 (見圖79)高八一。 (見圖79)高八一。 (見圖79)高八一。 (見圖79)高八一。 (見圖79)高八一。 (見圖79)高八一。 (見圖70)高八一。

No. 79—The Pochung (轉鐘) is a single bell suspended upon a frame, and corresponding to the t'c-ch'ing, or "single sonorous stone." It measures 3.6 feet in length, and has a diameter of 2.25 feet which gradually decreases towards the top. The measurements here given correspond to the huang-chung, or first bell. It has to give one note at the beginning of each verse, in order to "manifest the sound"—in other words, to give the pitck it is struck with a wooden hammer It was called sung-chung during the middle ages.



(80)



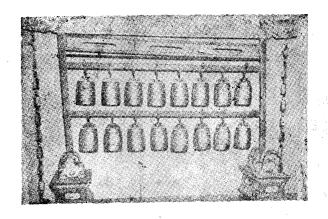
(81)

No. 81—The Pien-chung (編鐘), or "bell-chime," is an instrument composed of 16 bells suspended upon a frame. It is made on the same principle as the pien-ch'ing, or "stone-chime," and, like that instrument, is of the greatest antiquity. The Yellow Emperor HUANG T1 (B.C. 2697) —used a chime composed ot 12 bells, agreeing with the lis; the Chou dynasty (B.G. 1100 to 255) had chimes of six and nine bells, decreasing gradually in size and diameter; of these, however, nothing remains but a meagre description in the native records. In subse uent ages various kinds of chimes were made: some were composed of 24 bells, corresponding to two series of lüs; others of 16 bells, corresponding to the 12 lüs; plus the first four lus of the acute series; others of 14 bells, corresponding to the notes of the diatonic scale, C,D,E, etc.; in a word, this instrument under went the same changes as the "stone-chime."

Anciently the bells were quadrate; under the Tang (A.D. 600, and after) subsequent dynasties the bells were oval and were adorned with mammae in groups of nine each; the mouth was crescent-shaped, and they were hung obliquely. The Sung (A.D. 1000) provided each bell with a knob, by which it could be hung in a vertical position. But K'ANG Hsi, of the present dynasty, abolished the ancient forms and adopted round bells, ornamented with the pa-kua symbols, and having on the top a dragon, by which they dould be suspended. Chimes were made of 16 bells, all of the same size and diameter, but differing in thickness and weight. These are the chimes now in use.

The music, the pitch, the notation, etc., of the pien-chung is exactly the same as that of the "stone-chime;" and, like this latter instrument, it is excusively devoted to court and religious ceremonies. Wherever a stone-chime is used, a bell-chime is re uisite; they are necessary one to the other: the bell-chime sounds and the stone-chime answers.

At the Confucian temple the pien-chung is placed on the east side on a line with the po-chung. It gives one note at the beginning of each word, to intimate the pitch to the singers.



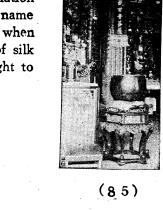


(83)

(82) 圖 置 位 鐘 編

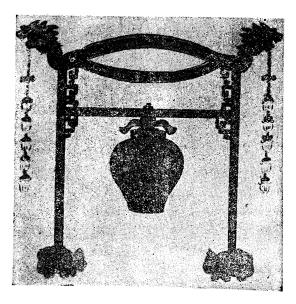


No. 86—The Shun (算) This is the literary appellation of an instrument shaped like a mortar. The popular name is 罄 (ching). It is struck with a wooden hammer, and when used at the religious ceremonies is put into a kind of silk purse richly ornamented with costly fish scales. It ought to measure 10 cm in height and 12 cm in diameter.



●如圖(86)。





(87)

No. 87—The Wei.shun (難算) is a very ancient bell of the Chou dynasty. It had the shape of a balloon, and was suspended singly upon a frame. It was 40 cm in height; the upper diameter was 33.5 cm and the lower diameter measured 21 cm. It was suspended by a knob shaped somewhat like the 難 (wei), monkey. This animal is said to have a yellowish grey

head, a forked tail, and an upward nose; in rainy weather it hangs from the branches of trees by putting the two ends of its tail into its nostrils, and so forming a circle. From it was derived the Chinese idea of suspending their bells.

The wei-shun was used mostly for the ceremonies at the Temple of Ancestors, where it corresponded to some kind of drum which has also disappeared.

It has been said that this instrument "is simply a large bell, with small round bell; suspended in it to act as a tongue, the sound thereby produced being exceedingly shrill".

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No. 88—The Fang Shiang (方響) Sixteen pieces of steel plates hanging on a frame and playing with a small wooden hammer. This instrument is similar to the european celesta.







(90)

(89)

No. 91—The Lo (鑼), or "gong," is cast in the shape of a platter or a Chinese straw hat with large brim; it is of various sizes, varying from 8 cm to 120cm in diameter. It is suspended by a string, and struck with a mallet. The use of this noisy instrument is very general. At the gates of yamens it announces the arrival of visitors; in the army it gives the signal of retreat; in processions it frightens and drives away evil spirits; on board ship it announces departure; during eclipses "it frightens the heavenly dog when about to devour the moon"; in songs it marks the time; in the streets a small gong is the sign of the candy merchant, and a large one may announce the approach of the district magistrate with his retinue; in Buddhist temples it is beaten to call the attention of the "sleeping gods."

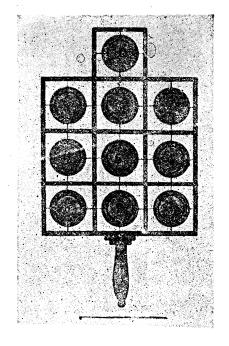
Native descriptions rarely mention the gong, perhaps because it is popular merely and is not required for imperial worship.

No. 90—The Cheng (錚) a percussion instrument and its form like a small gong of 10 cm diameter. It is hung on a metal frame, struck with a bamboo stick. It is used mostly for monk's prayer.



(91)

鑼



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(92)

No. 92—The Yun-lo (雲鑼), or "gong chimes," is an instrument composed of 10 little gongs suspended upon a frame by fine silk cord. The gongs are all of the same diameter, but they differ in thickness. The yun-lo is used at court, mainly on joyful occasions: at the Confucian worship it is required only in the "Guiding March." It is to be seen sometimes at wedding and funeral processions, It has become exceedingly difficult to find a yun-lo capable of, giving a satisfactory gamut; besides the pitch is not uniform, so that two yun-los rarely agree. The scale is ordinarily C, D, E, F G, A, B, C, D, E, or, in Chinese notes, 合,四,乙,上,尺,工,凡,六。五,允

秦,如國(94) 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和 一人執欽交錯和

No. 94—The Rao Po (鐃鈸) are two percussion instruments exactly the same principle as cymbals. The edge of the plate formed inward called 'Rao', while outward called 'Po. Diameter of present Rao po are 30 cm.

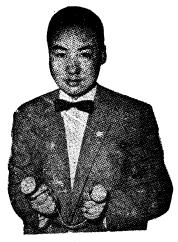




No. 95 Po (鈹) or "cymbals," are made on exactly the same principle as Western instument. They are said to have come originally from India. The use of them is most conspicuous at theatrical performances. After a quotation, a command, a verse, etc., the cymbals give 10 or 15 notes in rapid succession.

(95)

No. 96—The Shing (星) Also called "peng chung". Two cups of bronze struck each other, sound like bell. It's diameter is 4.5 cm. and high 2 cm.



(96)



No. 97—The Yin-Ching (引罄) A small bell of 4 cm high 5.5 cm in diameter fixed on a wooden handle of 25 cm long. It is struck with a small netal stick.

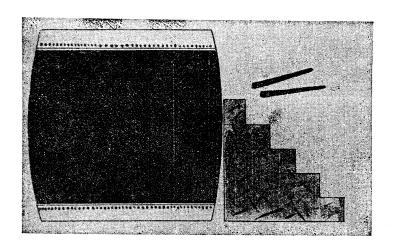


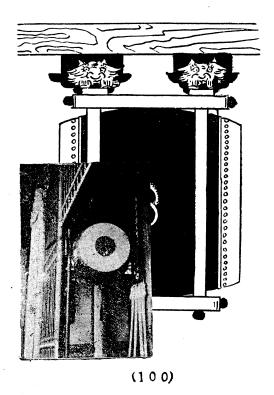
(98)

No. 98—The Chien Ku (建鼓) The idea of using animal's skin as the vibrating medium to make the drum was the remotest age invention. It is said that certain Hao-She (2597 AD) was the first one who made the drum. Chien Ku used in the confucian temple has 120 cm of diameter, it is supported horizontally on a pedestal which raises it quite high from the ground.

No. 99—The Kao-Ku (梟鼓) A big drum used in the military. 360 cm. high and 180 cm in diameter. An old instrument not much seen now.

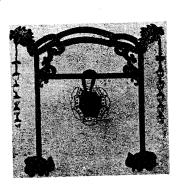
實鼓次之,長八尺,以鼓軍事。 皋鼓,古時起役、止役所用之大鼓,長達一丈二尺 皋 数





No. 100—The Chin ku (晋鼓) is also called 大成鼓 (Ta-ch'eng-ku), because it is ordinarily placed on the left side of the Ta-cheng gate. At the Peking Confucian temple it is suspended in the eastern pagoda, and corresponds to the large bell hung in the western pagoda. It is about 155 cm in diameter.

國(102),今不常見。 101)。傳爲帝舜時變所創 101)。傳爲帝舜時變所創 公分,桶長三十五公分,柄 長五十公分。古時賓至搖之 長五十公分。古時賓至搖之 長五十公分。古時賓至搖之 於時隨掉附搖之,以三搖爲 終時隨掉附搖之,以三搖爲



(102)



(101)

No. 101—The T'ao-ku (斡鼓) has a handle passing through the barrel. Two balls are suspended by strings from the barrel, and when the drum is twirled they strike against the heads. Of drums of this kind used at the Confucian ceremonies there are two, placed on the east and west sides respectively; they are sounded three times at the end of each verse. Such drums are now out of use.



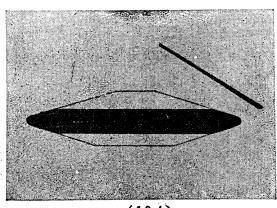
is a small

drum 40 cm in length, and 18 cm in diameter The table on which it rests is 30 cm high. The *po-fu* is used only in religious ceremonies At the Confucian temple there are two—one on the left, the other on the right side of the hall. In playing, the performer holds the drum on his

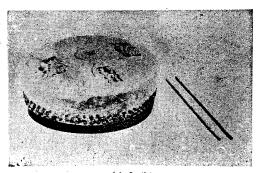
No. 103—The Po-fu (搏附)

knees and beats it with the hands.

cNo. 104—The Huai-Ku (懷鼓) Small drum with 20 cm of diameter and 5 cm high. Both faces of the drum are covered with leather. It is played with a bamboo stick, and the drum is put on the lap of the player.

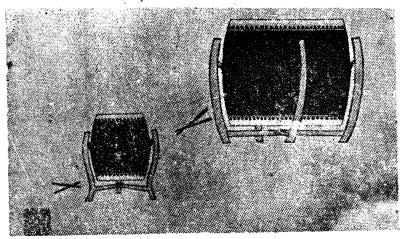


(104)



(105)

No. 105—The Pang-ku (梆鼓) is a small flat drum. with a body of wood; the top is covered with skin and the bottom is hollow. The diameter of the head is about 25 cm. It rests on a wooden triped. It is chiefly used in popular orchestras to beat time and accompany songs and ballads.

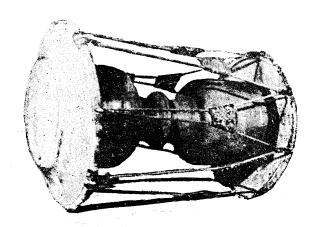


卅五公分。 一公尺。堂鼓則爲戲劇班中常用 一公尺。堂鼓則爲戲劇班中常用 放之於四脚架而平擊之,面徑約 大鼓爲民間常用大鼓之總稱, 大鼓爲民間常用大鼓之總稱,

(106)

No. 106—The Ta Ku. and Tang Ku (大鼓,堂鼓) The most common drum called Ta Ku.

Tang Ku is the drum used in Chinese opera, It is about 20 cm. in diameter and 35 cm high.



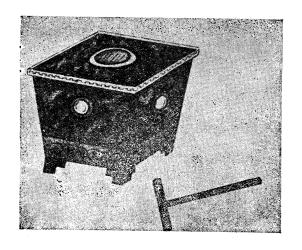
(107)

No. 107—The Shou Ku (手鼓) Small drum using in a procession. Whole length is about 80 cm. and the surface diameter is 20 cm. It is played with hand.



(108)

No. 108—The Bien Ta Ku (扁大鼓) Ordinary flat drum much used in modern Chinese orchestra. Surface diameter is 80 cm and 20 cm of height or thick.



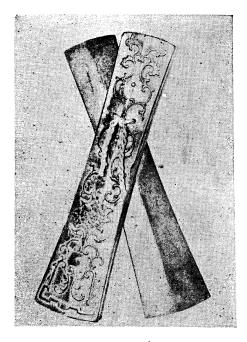
(109)

No. 109—The Chu (祝) resembles a square box, but it is larger at the top than at the bottom. It should measure at the top 70 cm on each side, and at the bottom 50 cm feet. The height should be also 50 cm. But these dimensions are not adhered to. In the middle of the box there is a hammer, so contrived as to move right and left and in one of the sides is a hole through which to pass the hand. The ancient chu was made of 梧桐 (wu-t'ung) wood. The interior is painted yellow, and the sides blue, red, black, and white. It is adorned with landscapes, figures of fabulous animals etc. It is used only at religious ceremonies.

No. 110-The Yu (函文) has the form of a tiger resting on a rectangular box. It should be 105 cm. in length, 50 cm. in width, and 30 cm. high. The tiger has on its back 27 teeth, resembling a saw. At the end of each strophe the attendant strikes the tiger three times on the head, and rapidly passes his stick three times along the projections on the back. to announce the end of the strophe. The yu is placed on the west side of the Confucian hall.

與左擊首三次,共成六擊。 與之與歸二十七片,長 與之與歸二十七片,長 與之與歸二十七片,長 與之與歸二十七片,長 與之與歸二十七片,長 與之與歸二十七片,長 與之與歸三十公分,寬約三十公分 ,現亦祭孔專用樂器。 ,現亦祭孔專用樂器。





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(111)

No. 111- The Pai-pan (挡板), or "castanets," are two small slabs of a kind of red-wood attached together with silk cord, and on which a third slab of the same kind of wood is struck to beat time. These are in common use in popular orchestras. An ancient kind of castanet consisted of 12 small slabs of bamboo fastened together, upon which poetry was engraved; it was named 舂檳 (ch'un-tu No. 112), and was used at religious ceremonies. Nowadays the ch'un-tu has been replaced at the Confucian ceremonies by another kind of castanet called 爭版 (shou-pan). The slabs of the shou-pan are of 槐 (huai) wood, 24 cm long, 1 cm thick, 6 cm broad at the lower end, and only 5 cm at the upper end. The words of the hymn are engraved on it. Each of the six singers has charge of one shou-pan; at each word they strike the slabs against the palm of the hand

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No. 114— The Mu-yu (木魚) or "wooden fish," is made of a block of wood hollowed out and shaped somewhat like a skull. It is painted red all over, and is of all sizes, up to 10 cm to 15 cm in diameter. It is used by priests to mark time in the recitation of prayers when begging from door to door or in performing their ceremonies.



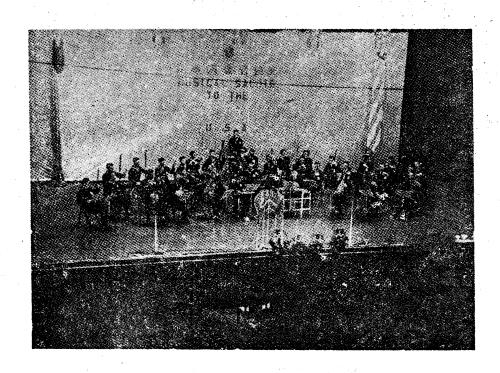
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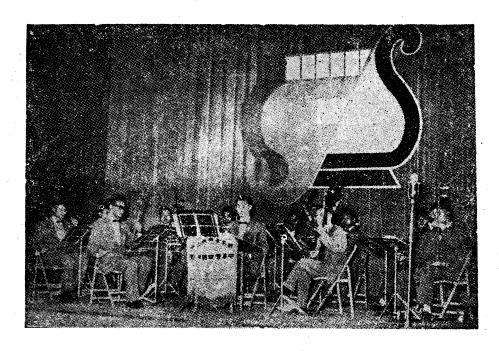


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片圖奏演團樂國化代現

Modern Chinese classical music orchestra.





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The "Chinese Musical Instruments" had been published under the auspices of the then Director Teng Chang-kuo in October 1960. Since the book in great demand, it has been out of print for a long time. At the beginning of my assuming the directorship of this Center, much was spent on extending the auditorium and on setting the cooling system; consequently, reprint of the booklet was hardly possible.

Now, some respite is gained; we print this re-issue which will be dedicated to the birthday of Confucius.

It is noted that several new Chinese musical instruments have been found, and that more materials should be added to. All these may have to wait for the next edition.

National Taiwan Arts Center Taipei, Republic of China September, 1968

South-King Wang Director

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CHINESE MUSICAL INSTRUMENTS

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