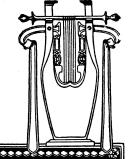


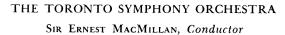
Presser's Musical Instrument Pictures

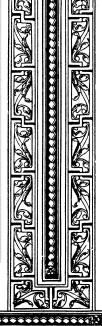
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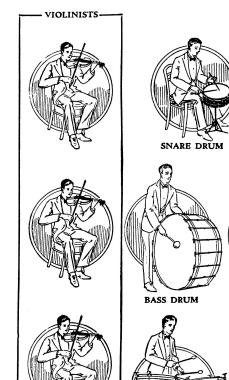


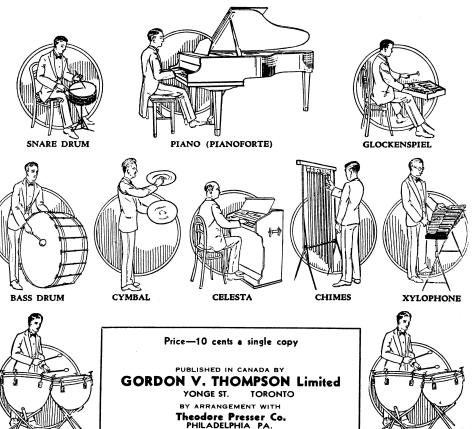




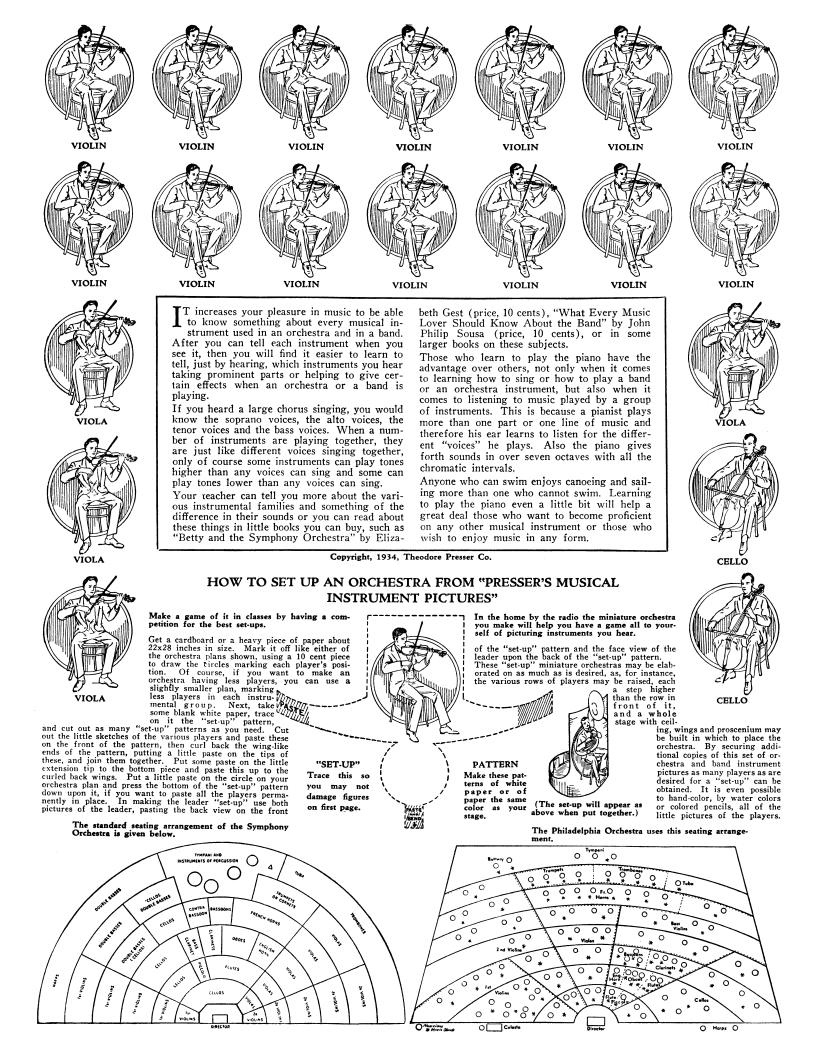


VIOLINISTS.





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VIOLIN

(The Italians call it VIO-LINO. The Germans call it VIOLINE or GEIGE. The French call it VIOLON.) THE VIOLIN STRINGS 0

The most important orchestral instrument. It is also one of the most popular of solo instruments. All shades of expressiveness are possible upon the violin and the tone may be varied in volume from the most delicate pianissimo to a full, brilliant and powerful fortissimo. The symphony orchestra usually has 30 violins, with 16 assigned to the first violin part and 14 to a second violin part. A full-size violin is 23½ inches long. There are three-quarter and half-size violins for use with young students. The violin has three relatives in the instrument family—the viola, cello and double bass.



The viola (about 25 inches long over all) is pitched a fifth lower than the violin. It is rarely used as a solo instrument, its chief purpose being a harmony instrument in string ensembles and in the symphony orchestra, where at least 10 generally are used to make up the tenor section of the string choir. Its general somberness and depth of tone when allowed to predominate serve for effects that border on the sad or melancholy character.







DOUBLE-BASS

(The Italians call it CONTRA-BASSO or VIOLONE. The Ger-mans call it KONTRABASS. The French call it CONTRE-BASSE or VIOLONAR.)

This is the largest and deepest toned of the string choir, voiced an octave below the cello. Its strings are tuned in fourths and not in fifths as the other members of the stringe choir are tuned. It stands around 6½ feet. There are some 5 stringed basses but the 4 stringed instrument is the one in common use. Its deep tones make it a valuable supporting instrument in the symphony orchestra where around 6 to 8 are used, the number being kept a few less than the cellos. Rarely does any one appear with it as a solo instrument and there is very little published for such use. Presser Co. does have in its catalog 4 Double Bass solos by Sevitzky.

way of ten.





FLUTE (The Italians call it FLAUTO. The Germans call it FLÖTE. The French call it FLOTE.) PICCOLO **FLUTE**

The flute is referred to as a wood-wind instrument but there are many flutes made of silver or other metals. Tone is usually obtained from wood instruments through the use of a reed, but, with the flute and the piccolo, the performer blows across the hole in the side of the instrument toward one end. The flute is the quickest speaking of all the wind instruments and this, with its clear, pure liquid tone, also carries it into the realm of solo instruments. It is also a favorite obbligato instrument with voice and piano. There are three in the usual symphonic make-up. It is 26½ inches in length. In the orchestra the flute in C generally is used.

THERE ALSO IS AN ALTO FLUTE IN F, WHICH SOUNDS A FIFTH LOWER THAN WRITTEN, AND A D-FLAT FLUTE (WAS USED IN BANDS), WHICH IS PITCHED A HALF TONE HIGHER THAN THE C FLUTE NOW USED IN BOTH BANDS AND ORCHESTRAS. THE D-FLAT FLUTE NOW IS USED VERY LITTLE.

PICCOLO

(The Italians call it FLAUTO PIC-COLO or OTTA-VINO. The Germans call it KLEINE FLÖTE. The French call it PETITE FLOTE.



PICCOLO

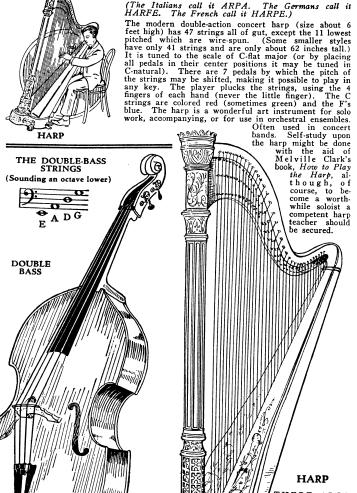
The piccolo is something of a little brother to the flute. Its tone is one of great brilliancy even to what might be said a penetrating degree. Symphony orchestras usually have a C piccolo, but small orchestras often are without this instrument. The piccolo is pitched an octave higher than the flute. The piccolo is 12½ inches in length.

THERE ALSO IS A D-FLAT PICCOLO WHICH IS THE CHOICE FOR BANDS.

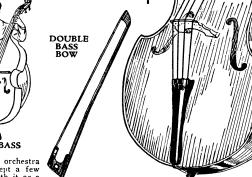
FOR BANDS.



(The Italians call it ARPA. The Germans call it HARFE. The French call it HARPE.)





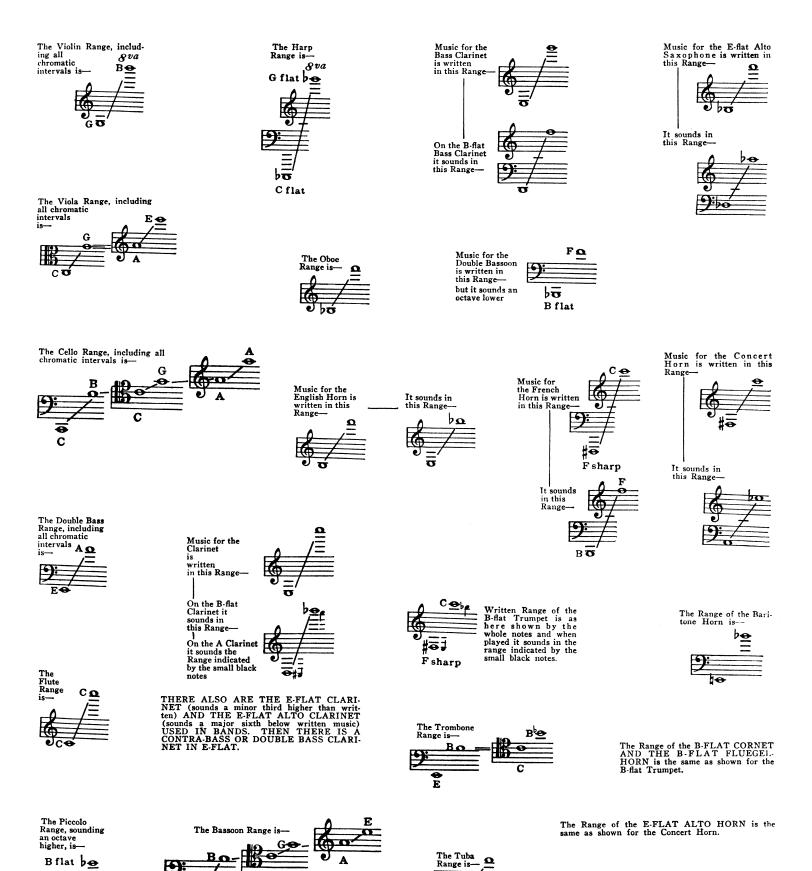


THE RANGE OF EACH OF THE VARIOUS INSTRUMENTS

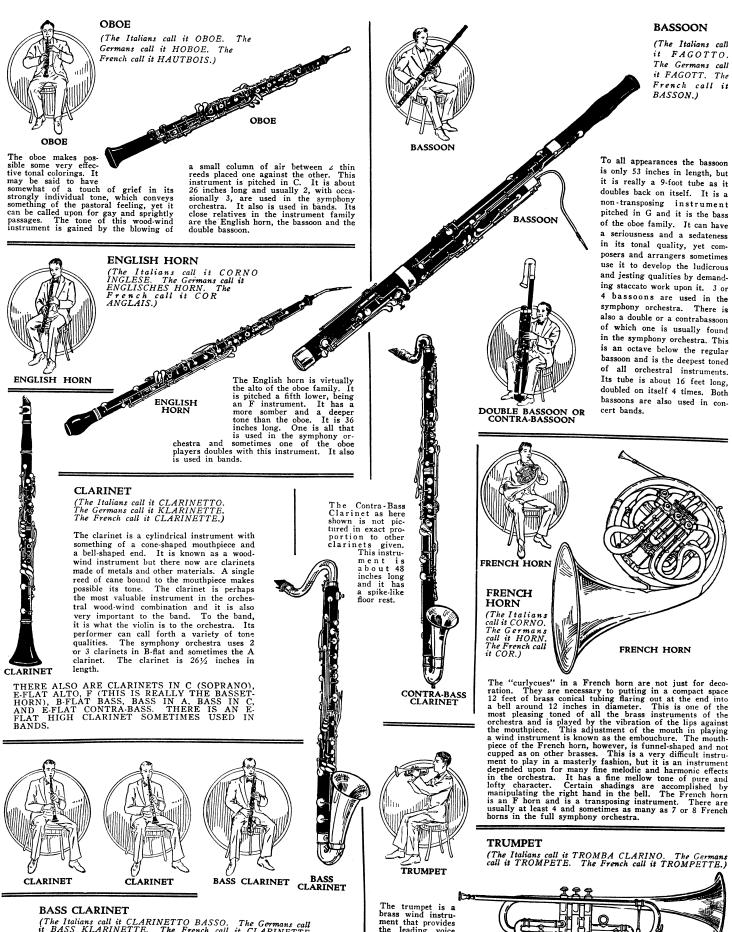
On some of the instruments additional notes beyond the ones here indicated may be played. The endeavor here is to show only the range that is in practical use.

B flat

It is to be noted that the viola uses the C clef, placed on the third line of the staff, while the cello, trombone and bassoon use the C clef placed on the fourth line. This clef is movable insofar as location on a five line staff is concerned, but the staff line running through its center always is Middle C.



The SOUSAPHONE, originated by John Philip Sousa, is used in modern bands and dance orchestras. Its flaring bell may be adjusted to focus the tone in any direction.



(The Italians call it CLARINETTO BASSO. The Germans call it BASS KLARINETTE. The French call it CLARINETTE BASSE.)

The bass clarinet, of which there is usually one in the symphony orchestra, is made in C, B-flat and A. The B-flat is usually used in both bands and orchestras. The bass clarinet is an octave lower in pitch than the ordinary clarinet. It has a full rich tone and it fits well in the wood-wind ensemble and also provides a stately, dignified and noble solo voice. The bass clarinet is about 34 inches, not including the upper curved end to the mouthpiece and the turned-up bell end.

The trumpet is a brass wind instrument that provides the leading voice of the brass choir. Its entire tube length is half that of the French horn and it is pitched an octave higher than the French horn. It is a B-flat instrument. Like the cornet, the modern orchestral trumpet has 3 valves and there is a slide or a valve mechanism by which it may be quickly changed from a B-flat instrument to an

A instrument. The mouthpiece is cup-shaped. The tone quality is brilliant and it has a martial majesticalness. The length from the mouthpiece straight out to the end of the bell is about 21 inches. 2 to 4 trumpets are used in the symphony

TRUMPET





DOUBLE BASS





BELL LYRI (For Bands)





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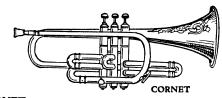










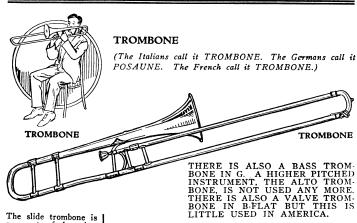


CORNET

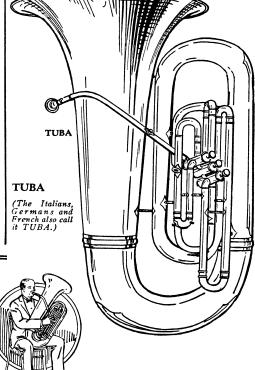
(The Italians call it CORNETTO or CORNETTA. The Germans call it CORNETT. The French call it COR-NET-A-PISTONS.)

The cornet is a brass wind instrument used in amateur and small orchestral groups but it has been practically discarded by the modern symphony orchestra. It stands pre-eminent in the band, however, where it takes the leading part. It also is an excellent solo instrument. It is a smaller appearing instrument than the trumpet and its tube tends toward the conical where the trumpet virtually

stays to a cylindrical tube. Like the trumpet it has 3 valves and it also has a mechanism for changing it from a B-flat to an A instrument. It has a mellow tone of beautiful roundness. While the cornet in general use is a B-flat instrument, there is one pitched in C and there used to be one used in bands pitched in E-flat, but this is now obsolete. The cornet is 16½ inches long.



The slide trombone is a masterful voice among brass instruments, and the B-flat instrument (the one chiefly used) is the tenor voice of the brass quartet. It is 45 inches in length. It sounds its lowest note when extended to the furthest point of the slide and the player has to obtain the pitch of each note by having a sense of the proper position of the slide somewhat as a violinist must have in the placing of his fingers on the strings. It has a rich, dignified tone and all gradations of volume are possible upon it, from the magnificent grandeur of its fortissimo down to the solemn mystical softness of its pianissimo. In the symphony orchestra from 2 to 4 B-flat slide trombones are used and the larger symphonies include a bass trombone. These also are used in bands.



For the double bass of the brass wind instruments in the orchestra we we have the tuba. This instrument is made with 3 to 5 valves. It has a deep, rich, sonorous tone with a softness of quality. Only one B-flat tuba usually is used in the symphony orchestra. The length of the tuba is 36 inches.

THERE ALSO ARE F, E-FLAT AND C TUBAS AND THERE IS A BB-FLAT CONTRA BASS OR TUBA AND THE HELICON AND THE SOUSAPHONE STYLES OF BASS HORNS FOR BANDS. THE HELICON IS THE E-FLAT OR THE BB-FLAT CONTRA BASS SO MODELED AS TO ENCIRCLE THE BODY OF THE PLAYER. THE SOUSAPHONE IS A HELICON WITH A WIDELY FLARING BELL WHICH MAY BE SET TO SEND THE TONE IN ANY DIRECTION. THE SOUSAPHONE ALSO IS USED BY DANCE ORCHESTRAS.



SAXOPHONE

(The Italians call it SASSOPHONE. The Germans call it SAXOPHON. The French call it SAXOPHONE.)







CONCERT HORN (or Mellophone)

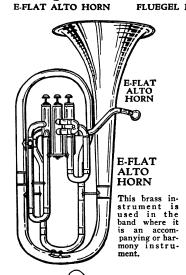
The concert horn is really an alto horn which looks something like the French horn. The French horn, however, circles clockwise and has a small funnel-shaped mouthpiece while the concert horn of less tubing goes anti-clockwise and has the cupped mouthpiece common to most brass instruments. The concert horn, or mellophone, is not used in symphony orchestras but, in amateur orchestras, the mellophone in F is often substituted for the French horn. The E-flat concert horn, or mellophone, is principally used in bands.

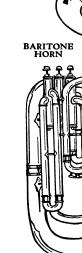


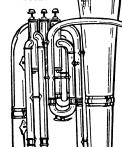
FLUEGEL HORN

The saxophone is named after its Belgian inventor, Adolph Sax, who evolved this instrument in 1840. It is a brass reed instrument combining features of the clarinet and the oboe, using the single reed of the clarinet and the conical metal tube of the oboe. It is not used in symphony orchestras to any extent but it has been adopted as an orchestral instrument by dance, amateur and small orchestras. It has been used in military bands for quite some time. The great wave of popularity for this instrument in orchestral and solo use came along about the time of the World War. The E-flat alto saxophone is pictured.

THERE ALSO ARE THE B-FLAT SOPRANO SAXO-PHONE, THE C MELODY SAXO-PHONE, THE B-FLAT TENOR SAXO-PHONE, THE E-FLAT BARITONE SAXO-PHONE, THE B-FLAT BASS SAXO-PHONE AND THE E-FLAT CONTRA BASS SAXO-PHONE.









BARITONE HORN

BARITONE HORN (3 Valves) or EUPHONIUM (4 Valves)

This is a B-flat band instrument sounding an octave below the B-flat cornet. Sometimes this instrument is seen with 2 bells and the player can switch to the smaller one for a trombone-like quality. quality.



THE FOLLOWING INSTRU-MENTS ARE ILLUSTRATED On Page One-

PIANO

(The Italians call it PIANOFORTE. The Germans call it KLAVIER. The French call it PIANO.)

The Germans call it KLAVIER. The French call it PIANO.)

The Pianoforte by general usage, has been shortened to Piano. This, the most important of all musical instruments, opens the door to a greater realm of music than any other single instrument. The Piano is a marvelous solo instrument, combining melody, rhythm, and harmony, and affording a wide dynamic scope of tonal powers and qualities. It is an unsurpassed accompanying instrument. There are upright pianos and grand pianos of various sizes. The French call the Grand Piano Piano à Queue, "piano with a tail." The Germans call it Klavier Flügel, an allusion to its wing shape. The white keys (52) form the scale of C major. The black keys (36) furnish the half tones needed to play in all the other major keys and all of the minor keys The average Piano covers approximately 7% octaves chromatically. Music for the Piano is written on the grand staff comprising the treble and bass clefs.

CELESTA

Auguste Mustel of Paris invented this keyboard instrument in 1886. Its mellow and beautiful bell-like tones of exquisite purity are produced by hammers striking small steel plates. Each plate has beneath it a perfectly tuned wooden resonator. It has a range of 4 octaves. Music for it is written from C, second space in bass clef, to high C, second leger line above treble clef staff. The tones sound one octave higher than written.

GLOCKENSPIEL

(The Italians call it CAMPANEL-LA. The Germans call it GLOCK-ENSPIEL. The French call it CARILLON, CLOCHES, or JEU DE TIMBRE.)

DE TIMBRE.)

Sometimes called the orchestra bells. It usually has 37 chromatically tuned metal bars arranged in 2 parallel rows with a tube-like resonator under each bar. These run 3 octaves from Middle C up. There are some smaller instruments. This instrument is played with 2 wooden hammers and it gives forth tones of sparkling brilliancy. Some Glockenspiels are made to be played from a keyboard.

XYLOPHONE

(The Italians call it XILOFONE or GIGELIRA. The Germans call it XYLOPHON, STROHFIEDEL or HOLZHARMONIKA. The French call it XYLOPHON or CLAQUE-

This instrument's name has its root in the Greek word for wood, to which is added "phone" meaning sound. It is made of blocks of hardwood running in a size gradation and arranged in 2 rows, the lower row being like the white keys of the piano and the upper like the black keys. Some are made of metal bars. Metal resonators add to the tone. Played by 2 wooden mallets with somewhat flexible handles. Some soloists use 4 mallets, 2 in each hand. There are various size Xylophones, the larger ones usually ranging through 3½ octaves from the F below Middle C up to the C in the 6th added space above the treble clef.

CHIMES

(The Italians call them CAMPANE. The Germans call them GLOCKEN. The French call them CLOCHES.)

The orchestra chimes are a set of metal tubes accurately tuned. The set usually covers the chromatic range from G, 3rd space below the treble clef, to G, 1st space above the treble clef. These tubes are suspended from a frame and are struck at the upper end with a small wooden mallet.



PIPE ORGAN

The Germans call it ORGEL. The French call it ORGUE.)

The Pipe Organ is the most im-posing, the most majestic of all musical instru-ments, Some

majestic of all musical instructions. Some Pipe Organs where of stops. These stops generally control voice colorings such as the reeds, diapason, flute, piccolo, bassoon, clarinet, trombone, tuba, trumpet, and vox humana. There also is usually a stop for tremolo. Larger Pipe Organs run 3 to 5 manuals and a wide range of registers or stops for obtaining the colorings of practically all orchestral instruments. Each manual controls a set of pipes. The usual 5-manual groups are the Echo Organ, Solo Organ, Choir or Orchestral Organ, amount of the Pedal Organ, Swell Organ, and the Great Organ, along with the group of pipes of the Pedal Organ, The Organ pipes are of metal, reed or wood, and range in size from 4 feet long to 32 feet long. The cost of a Pipe Organ may range anywhere from \$1400 or \$1500 to several hundred thousands of dollars.

PIANO ACCORDION



The Accordion has been developed in

The Accordion has been developed in the last century, and around 1900, in Italy, a maker produced the with a piano style keyboard taking care of a range of over 3 octaves, ranging chromatically from F, 3rd leger line below the treble clef, to A, 5th space above the treble clef. There are some student instruments with smaller keyboards. Bellows moved apart and together by the left hand of the performer supply the air which is forced upon free reeds of metal. Under the fingers of the left hand are buttons for the bass. The instrument with 120 bass buttons, giving 40 bass notes and 80 chord combinations, is one of the most popular. There are some instruments having as few as 12 bass buttons, while others give 48, 60, 80, 60, 108, 140, 160, or 200 bass buttons. The Piano Accordion is popular as a solo instrument and as a member of the dance orchestra. Community and school Piano Accordion orchestras are many. It is now making a place for itself in the regular school orchestra.

BANJO
The Banjo is a plectrum string instrument with a tambourine or drum-like body, the head of which is a tightly stretched skin, and a long neck now usually made with frets. The Five-Stringed Banjo, such as used by the American Negro for an instrumental background to singing or to dancing, has one short string. This short string (E) is placed as the 5th string, but it is a fourth higher in pitch than the 1st string (B). The 5 strings are tuned B, G-sharp, E, A, and E. Some players use the thumb on only the 5th string, but generally the 1st string is picked by the 2nd finger, the 2nd string by the 1st finger, and the last 3 by the thumb of the right hand. Recent developments of the Banjo have brought forth some Six-Stringed Banjos, and Banjo Mandolins of 8 strings in 4 pairs. The most popular Banjo instrument of to-day is the Four-Stringed Tenor Banjo described in the following paragraph.

TENOR BANJO
As a solo instrument, as well as something of a rhythm or percussion instrument in the dance orchestra or dance "band," the Tenor Banjo has become one of the "liveliest" of instrument is played with a pick or plectrum held between the index finger and the thumb of the right hand. Its strings are tuned A, D, G and C. The music is written in the treble clef, ranging from the C of the 1st leger line below the treble clef upwards, but the actual pitch of the instrument is an octave lower than the written music.

GUITAR

(The Italians call it CHITARRA. The Germans call it GUITARRA. The Germans call it GUITARRE. The French call it GUITARE.)

TARE.

The Spanish Guitar is possible of being an instrument upon which music of great be auty may be brought forth in solo playing. Ordinarily, however, the average person only hears it used as an accompanying instrument or as part of a plectrum string ensemble. A Spanish Guitar has 6 strings are duting time of in fourths. Usually the 3 highest strings are gut and the 3 lower strings are wire wound. In stringed instruments the highest string is named first. (The old banjo is one exception to this.) The Guitar strings are E, B, G, D, A and E. The written notes are an octave above the true pitch of the Guitar. The fingerboard is fretted and the strings are played by a pick or plectrum held between the thumb and first finger.

BASS DRUM

See Illustration on Page One

(The Italians call it GRAN CASSA. The Germans call it GROSSE TROMMEL. The French call it GROSSE CAISSE.)

French call it GROSSE CAISSE.)

This largest of the Drum family is a cylindrical shell of metal or wood ranging from a little over 2 feet to close to 3 feet in diameter. It has a "head" on each side. It has no definite pitch but is used for certain booming and dramatic effects in the concert orchestra and concert band where the player uses a single soft head drumstick. In the marching band, it is a rhythm instrument and the player often uses a drumstick in each hand, beating upon each side of the drum. In smaller orchestras, the Drum becomes part of the "Traps" set-up with a pedal worked drumstick.

SNARE DRUM

See Illustration on Page One
(The Italians call it TAMBURO MILITARE,
The Germans call it KLEINE TROMMEL.
The French call it CAISSE CLAIRE or
TAMBOUR.)

TAMBOUR.)

The Snare Drum, an important instrument in a military band, also has taken an important place in the symphony orchestra, concert band and the dance orchestra. The snares are strings of catgut stretched across the center of the outside of the lower head. Two hardwood sticks with small, rounded or partially pear-shaped ends are used for the playing of it. There are Snare or Side Drums with a head diameter of 17 inches and a depth of 14 inches, which are used by some bands in street marching and by military bands in field work. The average Snare Drum is from 14 inches in diameter with a side depth of 4 inches, to 15 inches in diameter with 6 inches in side depth.

TYMPANI (Kettle-Drums)

See Illustration on Page One (The Italians call them TIMPANI. The Germans call them PAUKEN. The French call them TIMBALES.)

Germans call them PAUKEN. The French call them TIMBALES.)

The body of each drum is metal in a hemispherical form and the "head" of each drum is a tightly stretched calf-skin in the well-prepared vellum or parchment quality. The drums have screws for varying the tension of the head since these are instruments which may be tuned to definite pitches. They are played with 2 drumsticks, the beating ends of which are solid felt. Often the drums are used only in pairs, the larger with a range from F below the bass clef to C, and the smaller with a range from B-flat, second line of the bass clef, to F, each having a compass of a fifth, giving a range of an octave to the two. With 2 drums, the tonic and the dominant may be commanded, although in some keys the dominant must be above the tonic and in others the dominant must be below the tonic. Many modern orchestras use three drums, permitting the sounding of the sub-dominant as well as the dominant and the tonic of the key. The timpanist, in meeting the key changes common in orchestral scores, must possess a good ear to make his changes. The player also controls a great dynamic range through the lightness or forcefulness of his beat.

CYMBALS

See Illustration on Page One

(The Italians call them PIATTI or CINELLI. The Germans call them BECKEN or CINEL-LEN. The French call them CYMBALES.)

A pair of circular brass plates with a small center portion slightly concave on the striking side. The performer holds them by leather or fabric loops attached to the center of each instrument. They are made to sound by striking the edges together in a sliding motion.





FRENCH HORN



FRENCH HORN



FRENCH HORN



FRENCH HORN



TRUMPET



TRUMPET