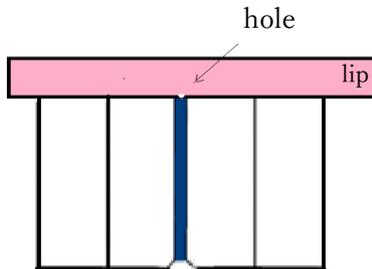


(15) A small hole was made at the top of the refilled gap



During the course of practice, a very small hole appeared of its own accord.

Reasons I can think of why this hole appeared.

Pressure of the breath may concentrate on this point.

Refilled part becomes weak to make a crack between the refilling and the gums.

I thought that this hole would make a good condition for the lips to vibrate.

Suggestions of experiments so far

①

In order to make the aperture oval, it is impossible to do by controlling the lip muscles only.

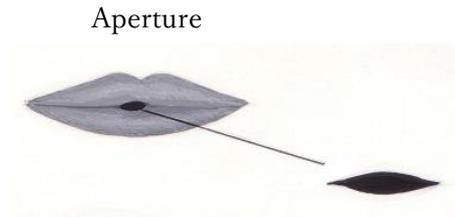
It seemed possible by making the shape of blowing breath oval.

②

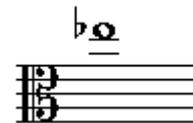
The tone quality and register seemed to change by the shape of lower part of two upper center teeth.

«Reference»

The breath from lung comes out while vibrating the lips. The shape of the lips when the breath comes out is called aperture. The shape of aperture resembles that of reed of oboe or bassoon looked from top. Tone quality depends on the aperture shape. Bad shape tends to allow noises. Aperture becomes small in high tones and big in low tones. Basically, sound volume does not affect the aperture.



(16) Ellipse



To blow an oval shape breath, the upper half of oval was made at the gap between the teeth.

## Result

From low tone to high tone, I felt the breath changed to lips vibration without waste. High tones up to Es sound was made. Rapid breath necessary for F sound could be made but the lips did not respond. Low tones including pedal tone were put in order to make clear the spirit of the sound.

I was surprised to feel the change not only of high tones but also low tones. This was really a shocking result. I could not believe that I was working hard to produce B sound. If I could continue to practice in this condition, it seemed possible to play hard pieces and to be an orchestral player.

For some years, I continued to check the shape and size of the ellipse.  
(To be precise it should be the upper half of the ellipse, I use ellipse)

Next, the report of ellipse

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