

# Fingering chart for the altissimo register

appendix of the dissertation

"The intonation in the altissimo register on the E-flat clarinet"

from

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# Appendix A

## Altissimo register fingering chart

The first fingering chart with 12 main and 210 alternative fingerings for the altissimo register (C $\sharp$ 6–C7) was created based on their frequency of occurrence (see Table A.1). In the second fingering chart the fingerings of the first chart were arranged towards their intonation. Figure A.1 shows the names of keys and tone holes. This fingering chart can be printed as a brochure. The fingering chart was designed using Inkscape (Bah, 2009).

| Clarinet schools/master's thesis |                              | Online charts |                                                                | Questionnaire |                    |
|----------------------------------|------------------------------|---------------|----------------------------------------------------------------|---------------|--------------------|
| a                                | Pilgerstorfer (1995)         | 1             | <a href="http://www.hueyng.de">www.hueyng.de</a>               | GP            | Gerald Pachinger   |
| b                                | Baermann and Schubert (1917) | 2             | <a href="http://timeforclarinets.de">timeforclarinets.de</a>   | WR            | Reinhard Wieser    |
| c                                | Wimmer (1983)                | 3             | <a href="http://klarinette-lernen.de">klarinette-lernen.de</a> | NA            | Alexander Neubauer |
| d                                | Schneider (1966)             | 4             | <a href="http://klarinette24.de">klarinette24.de</a>           | MR            | Martin Rainer      |
| e                                | Koch (1989)                  | 5             | <a href="http://wfg.woodwind.org">wfg.woodwind.org</a>         |               |                    |
| f                                | Koch (2002)                  |               |                                                                |               |                    |
| g                                | Feller (1984)                |               |                                                                |               |                    |
| h                                | Jettel (1961)                |               |                                                                |               |                    |
| i                                | Krassnitzer (2002)           |               |                                                                |               |                    |
| j                                | Jettel (1950)                |               |                                                                |               |                    |
| k                                | Schneider and Aegler (1997)  |               |                                                                |               |                    |
| l                                | Vollstedt (1940)             |               |                                                                |               |                    |
| m                                | Kietzer and Kohl (1949)      |               |                                                                |               |                    |
| n                                | Bender (1879)                |               |                                                                |               |                    |

*Table A.1: Clarinet schools, online charts, one master's thesis and a questionnaire was used to design an altissimo register fingering chart.*

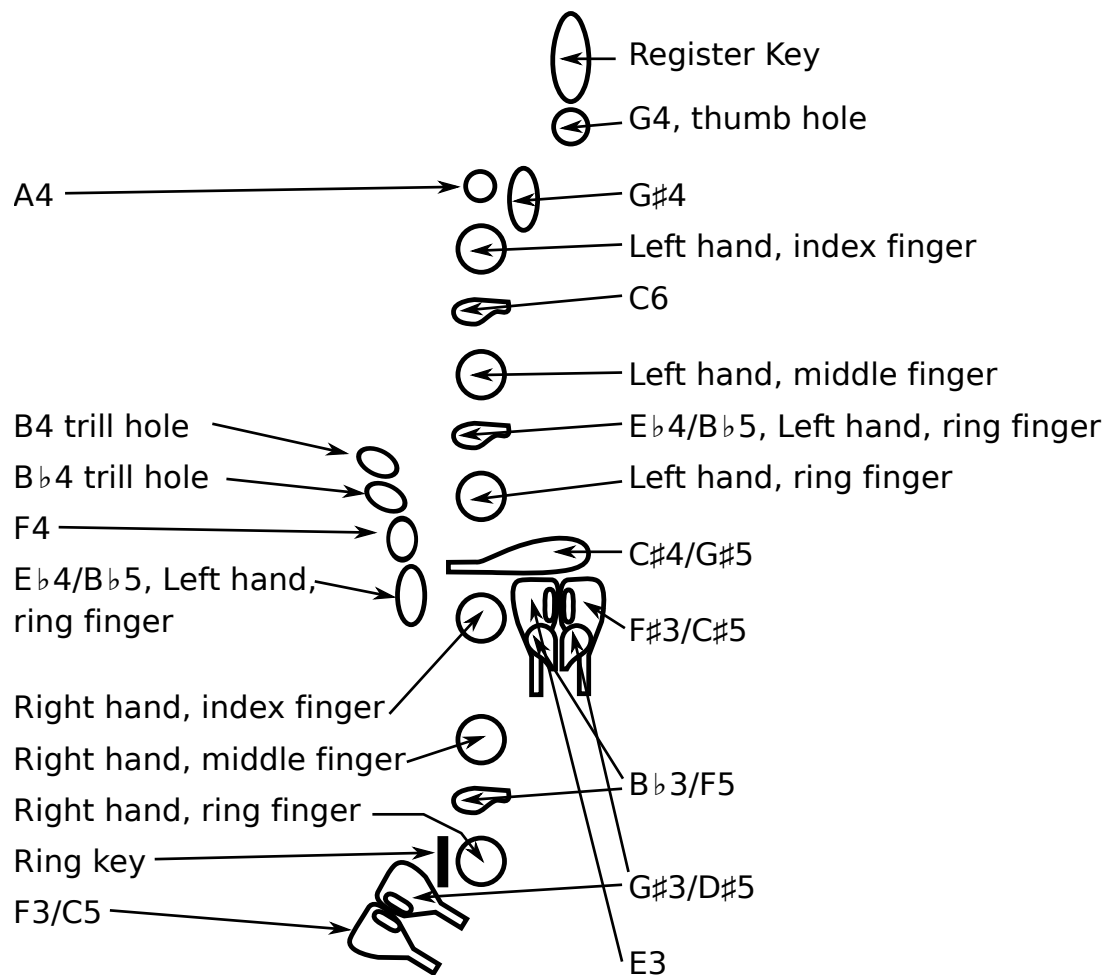
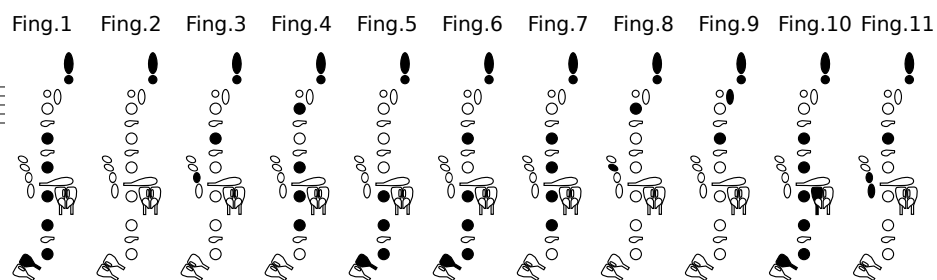


Figure A.1: Names of the keys and tone holes on the German clarinet system.

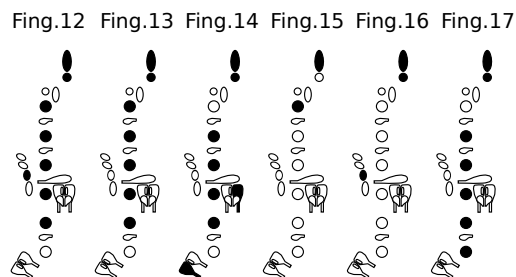
C#6/D♭6



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



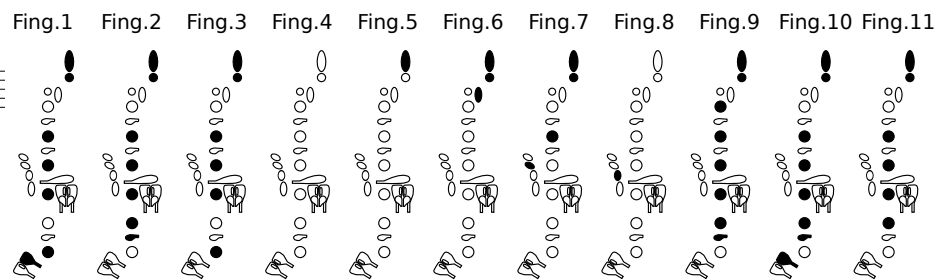
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17



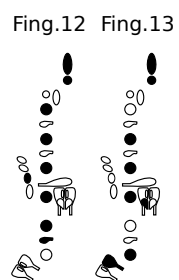
D6



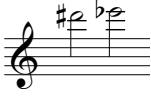
Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



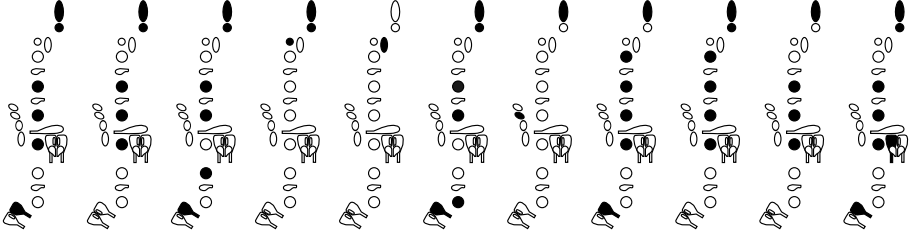
Fing.12 Fing.13



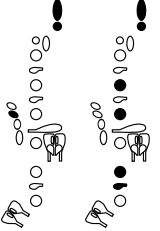
**D#6/E $\flat$ 6**



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



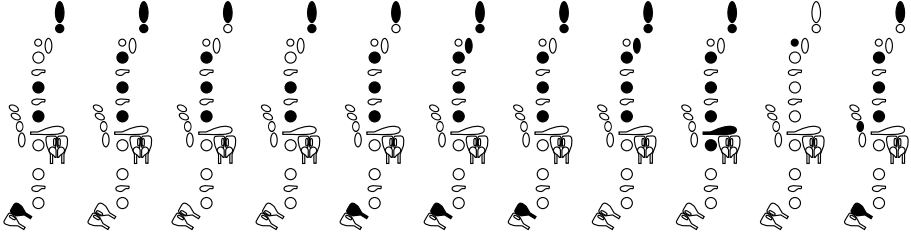
Fing.12 Fing.13



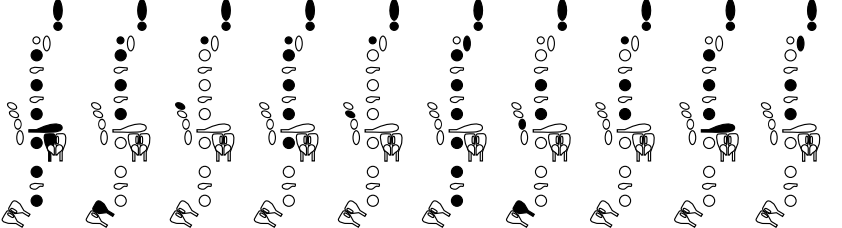
**E6**



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



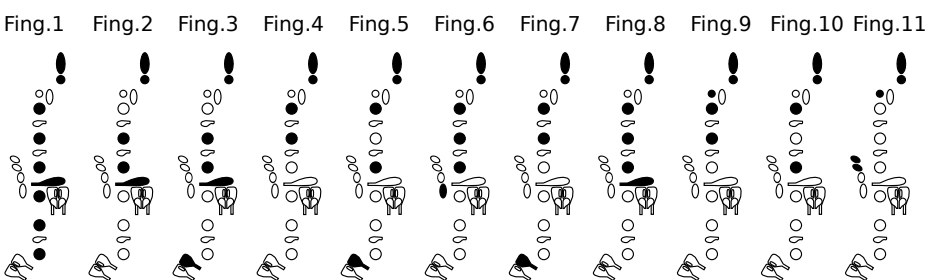
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20 Fing.21



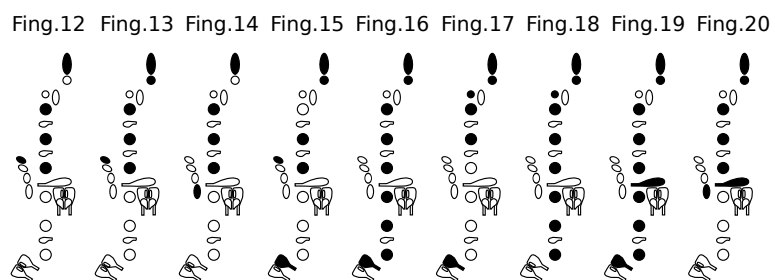
F6



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



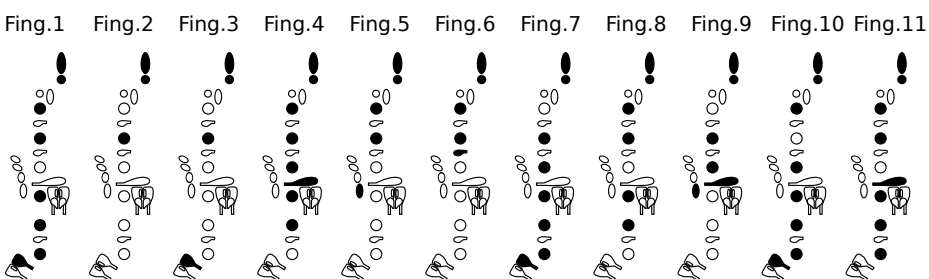
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20



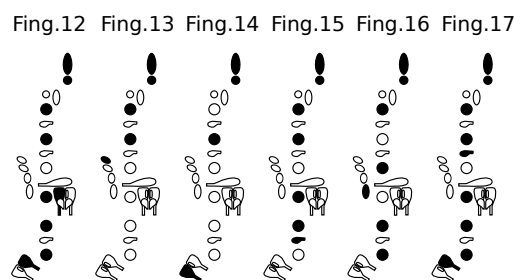
F#6/Gb6



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



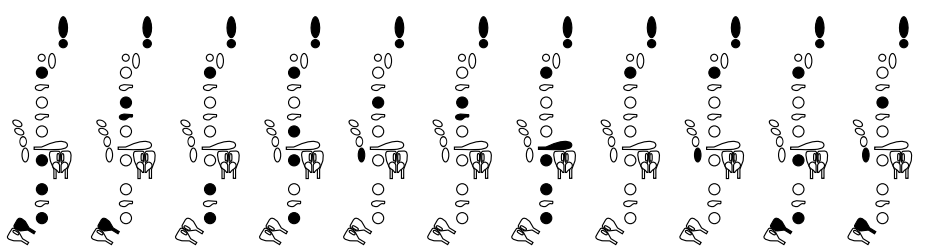
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17



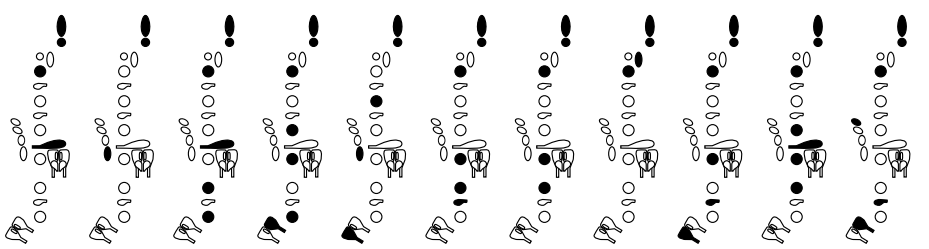
**G6**



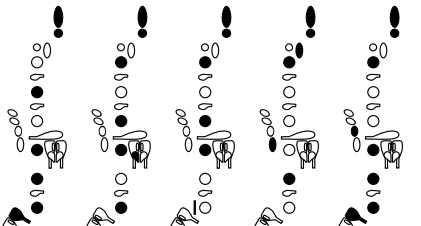
Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



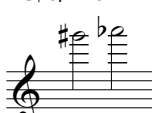
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20 Fing.21 Fing.22



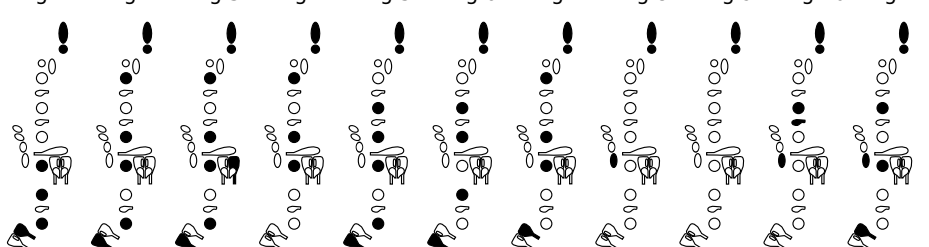
Fing.23 Fing.24 Fing.25 Fing.26 Fing.27



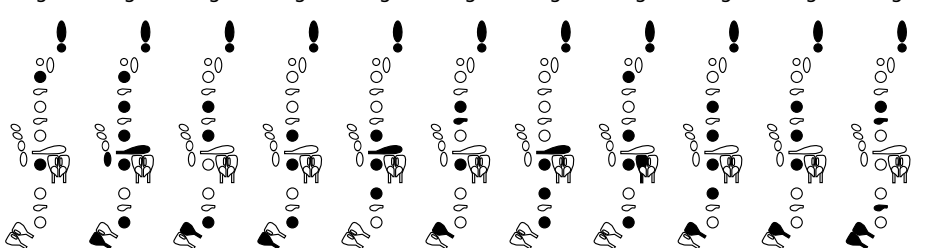
**G#6/A♭6**



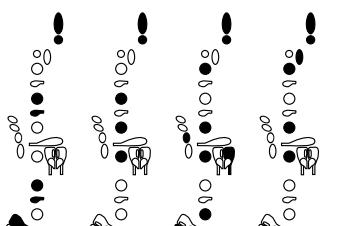
Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20 Fing.21 Fing.22



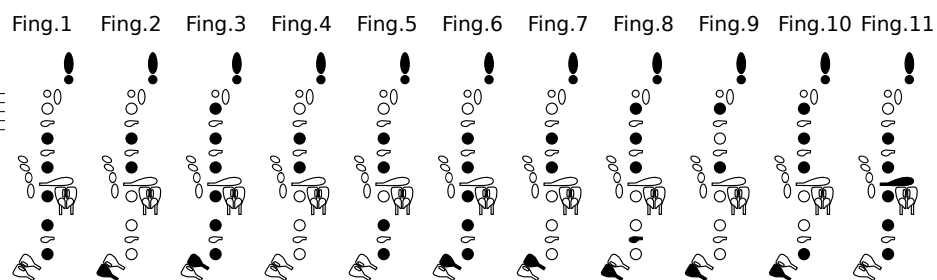
Fing.23 Fing.24 Fing.25 Fing.26



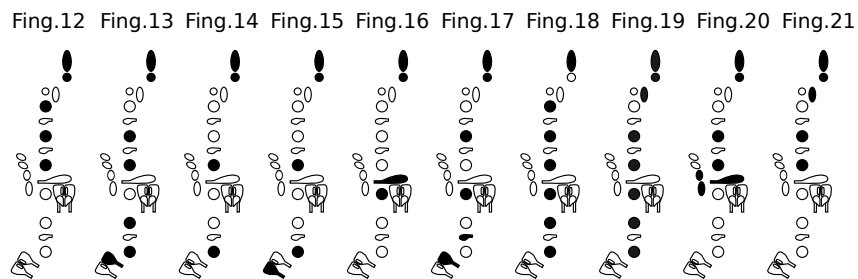
A6



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



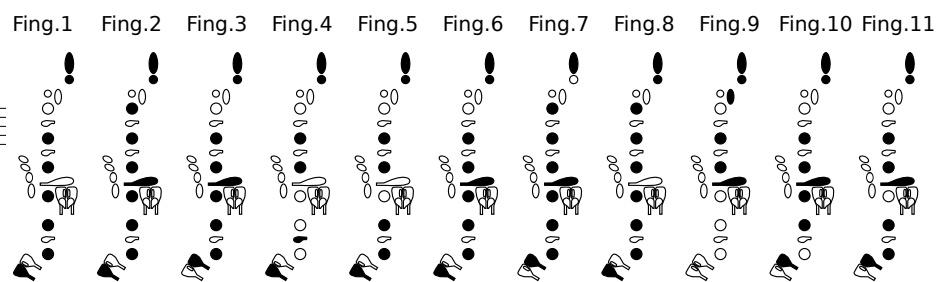
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20 Fing.21



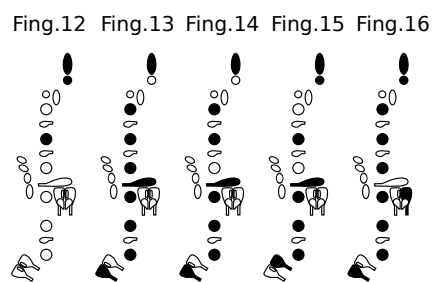
A#6/Bb6



Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11



Fing.12 Fing.13 Fing.14 Fing.15 Fing.16



B6

Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11

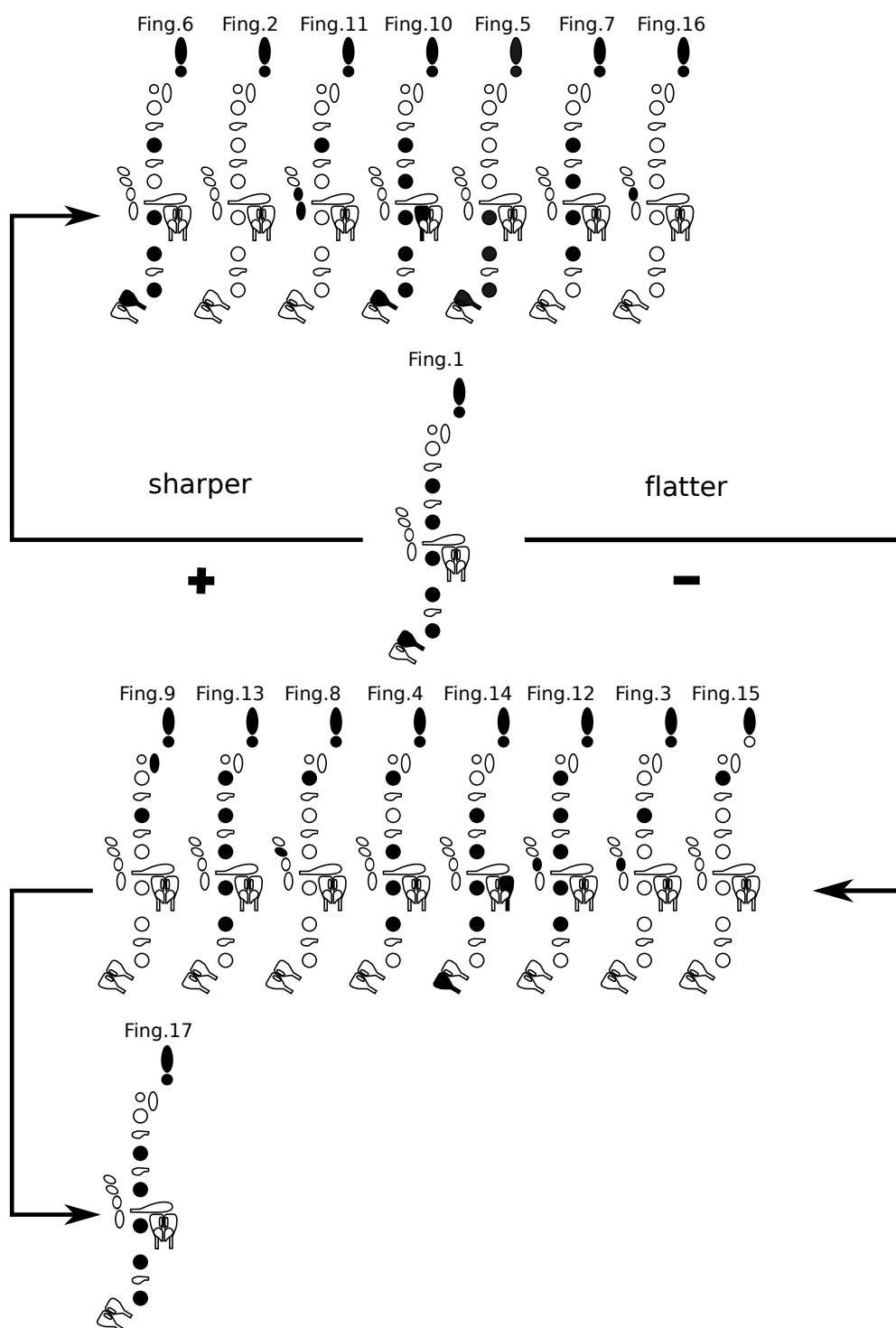
C7

Fing.1 Fing.2 Fing.3 Fing.4 Fing.5 Fing.6 Fing.7 Fing.8 Fing.9 Fing.10 Fing.11

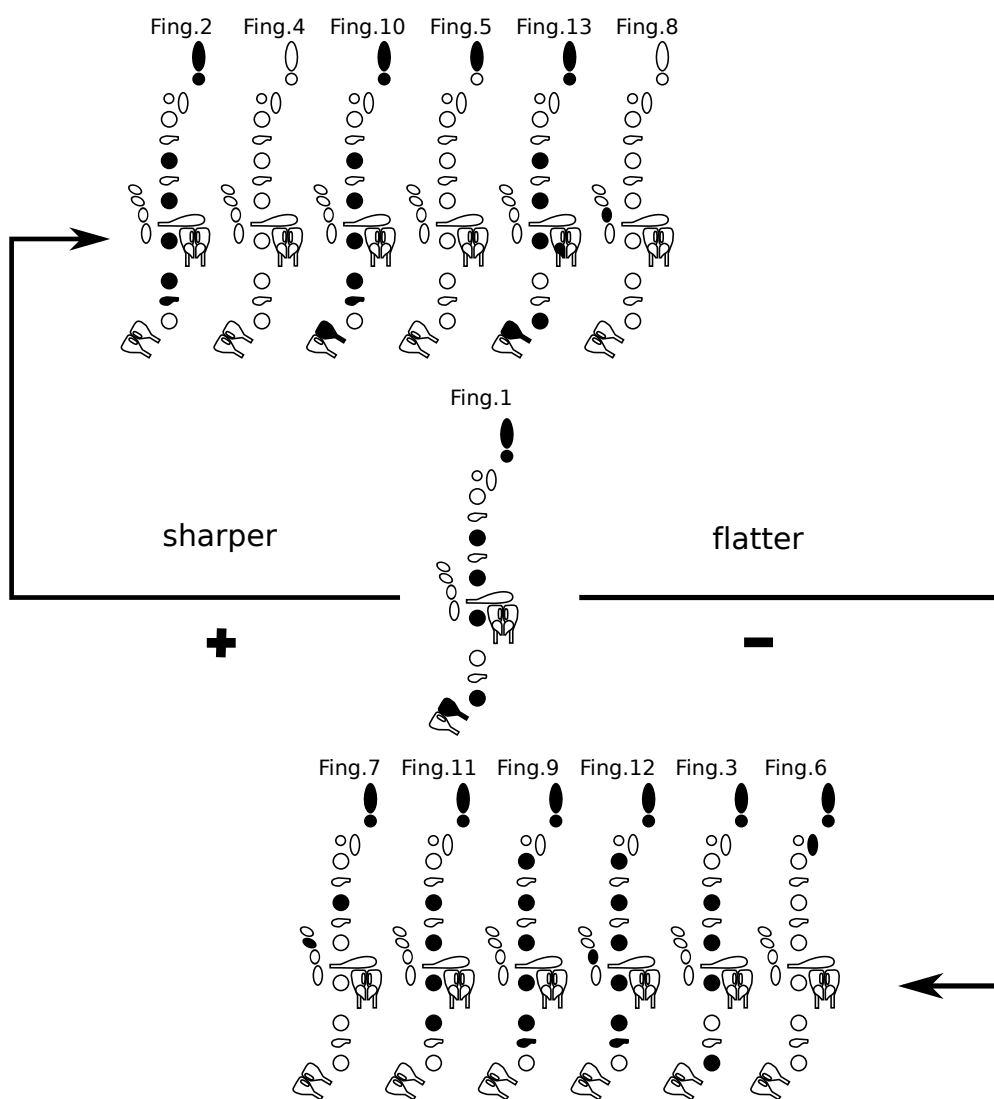
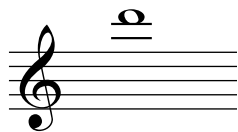
Fing.12 Fing.13 Fing.14 Fing.15 Fing.16 Fing.17 Fing.18 Fing.19 Fing.20

The chart displays fingering techniques for the altissimo register. The first section, labeled B6, shows 11 fingerings (Fing.1 to Fing.11). The second section, labeled C7, shows 11 fingerings (Fing.1 to Fing.11) and an additional 9 fingerings (Fing.12 to Fing.20). Each fingering is illustrated with a diagram of a hand, showing the placement of fingers on the keys. A musical staff with a treble clef and a sharp sign is shown to the left of the first two rows of fingerings.

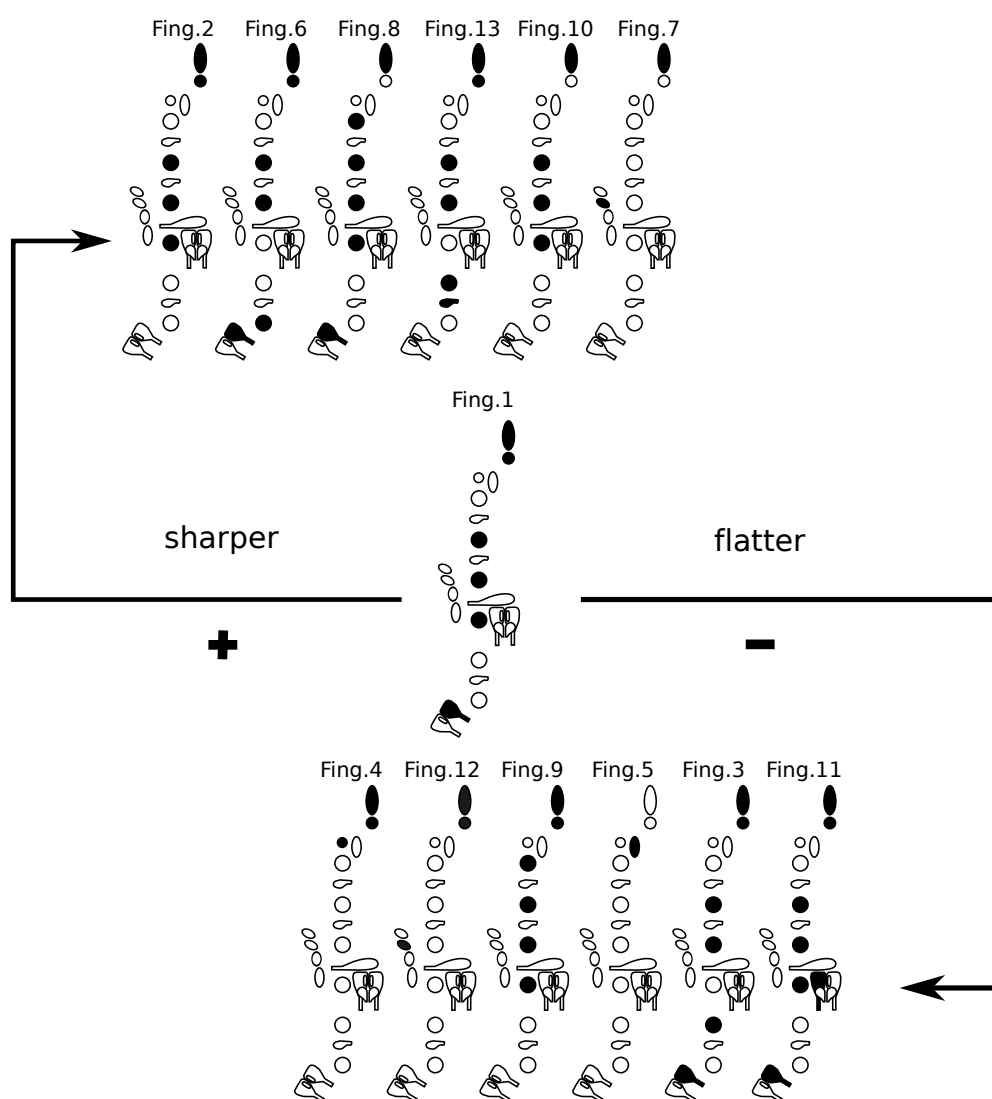
C#6/Db6

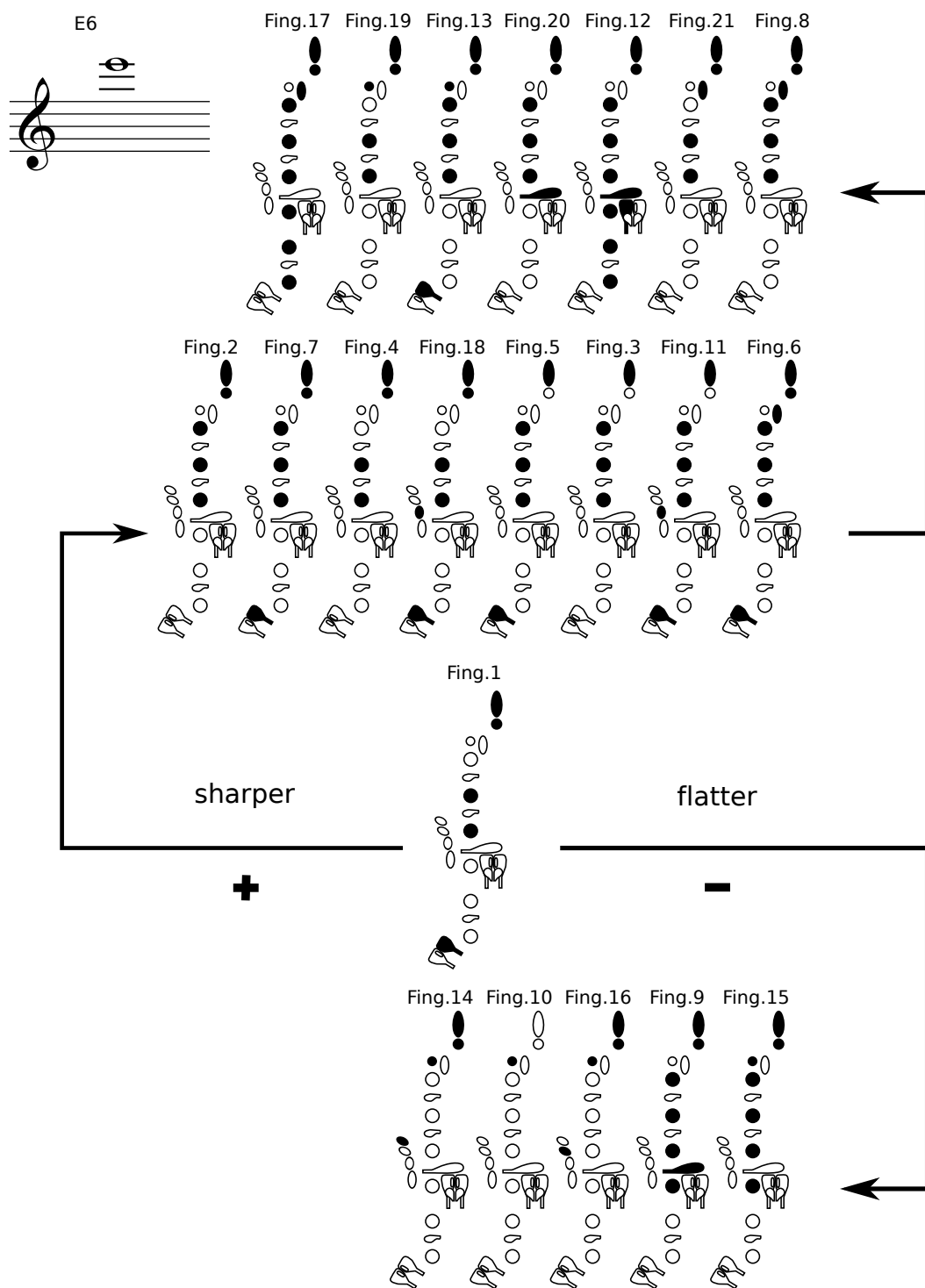


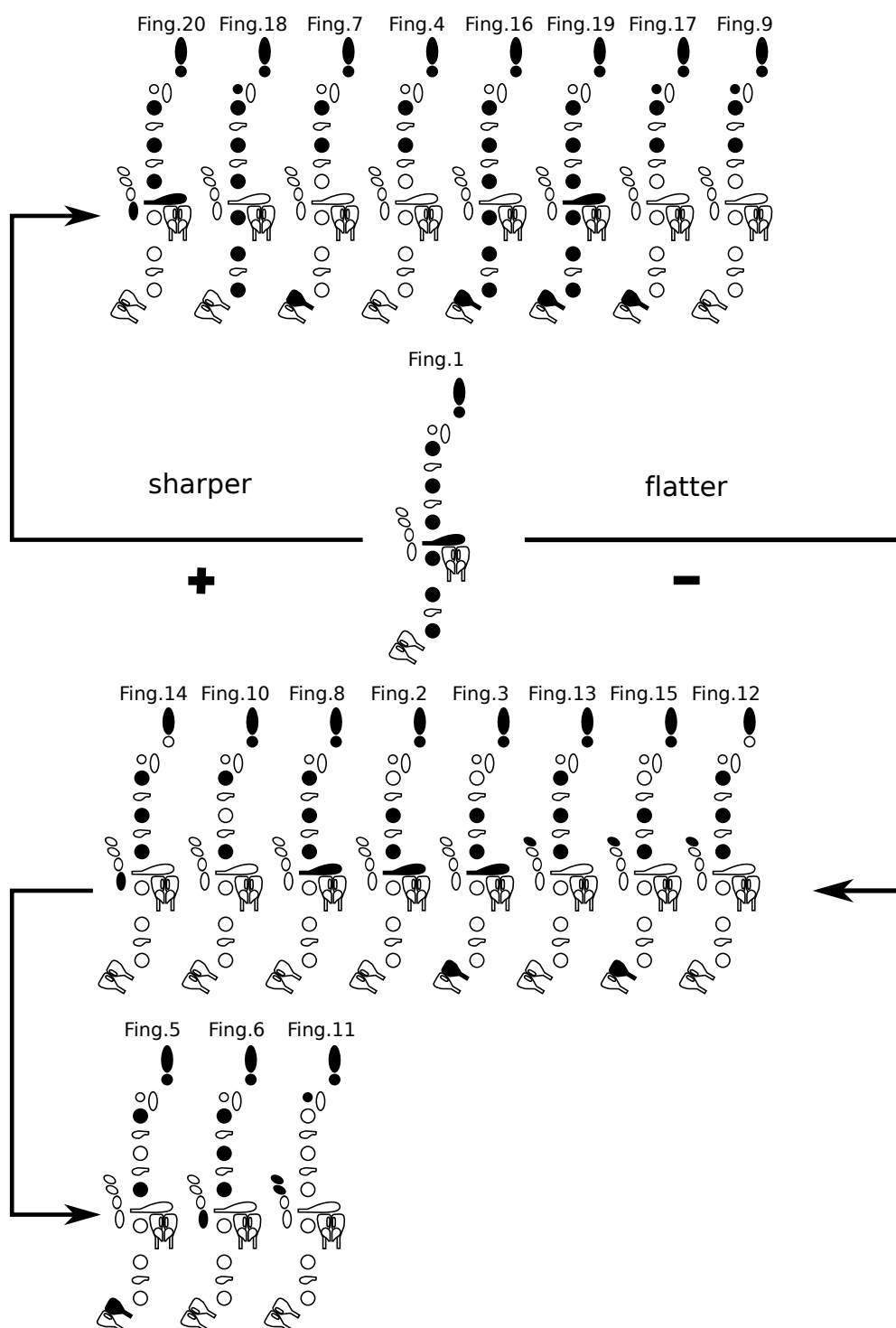
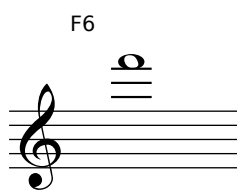
D6



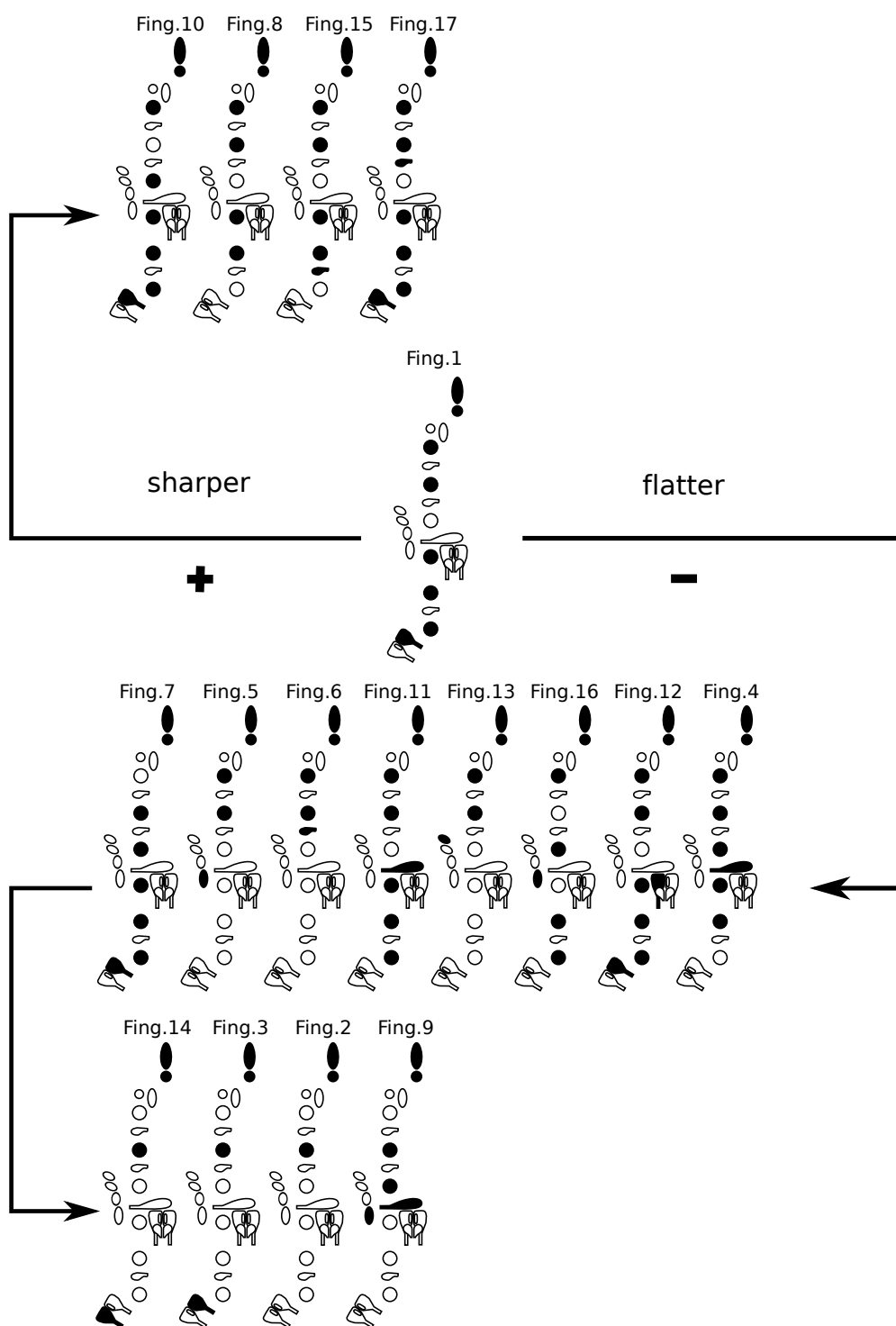
D#6/E♭6

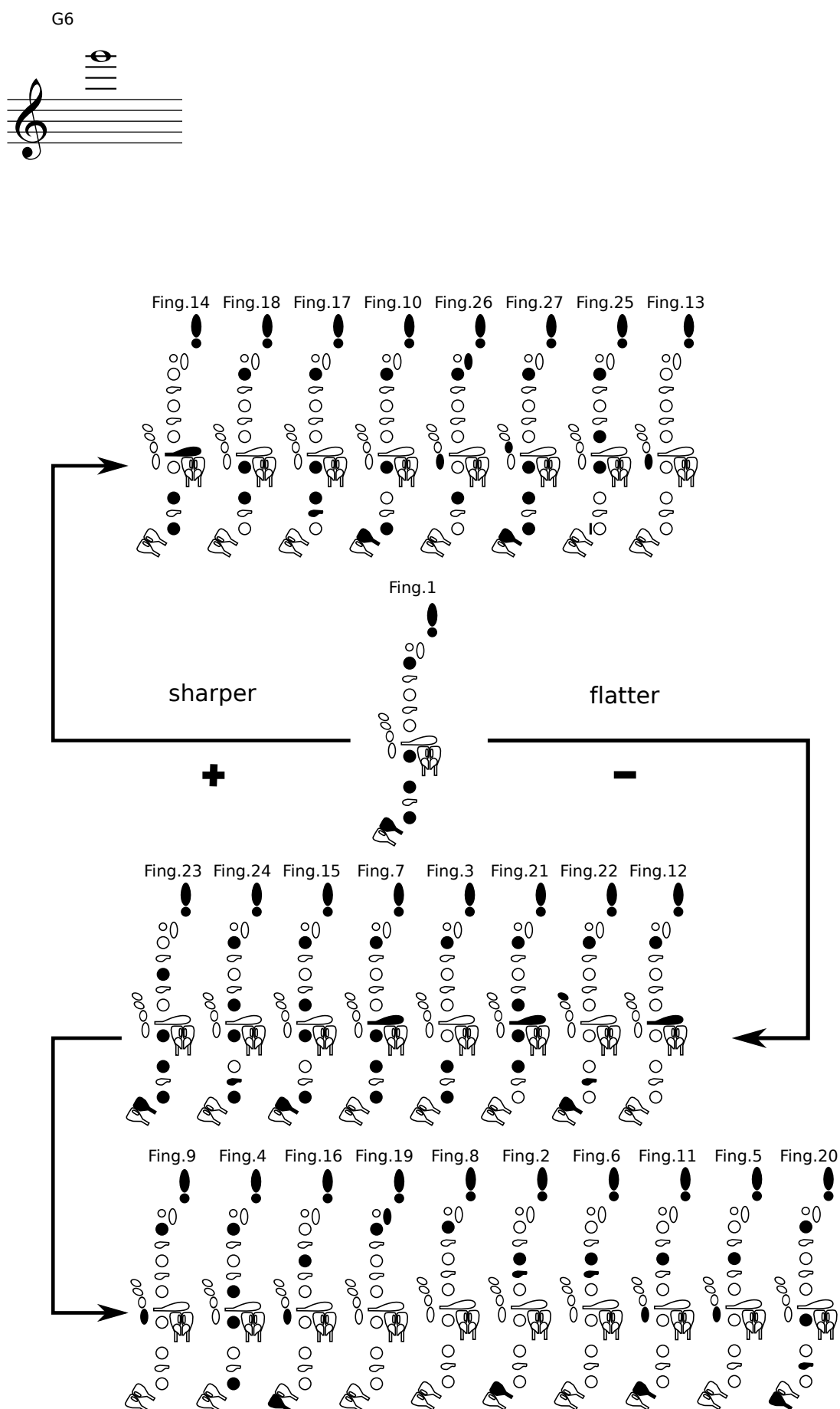


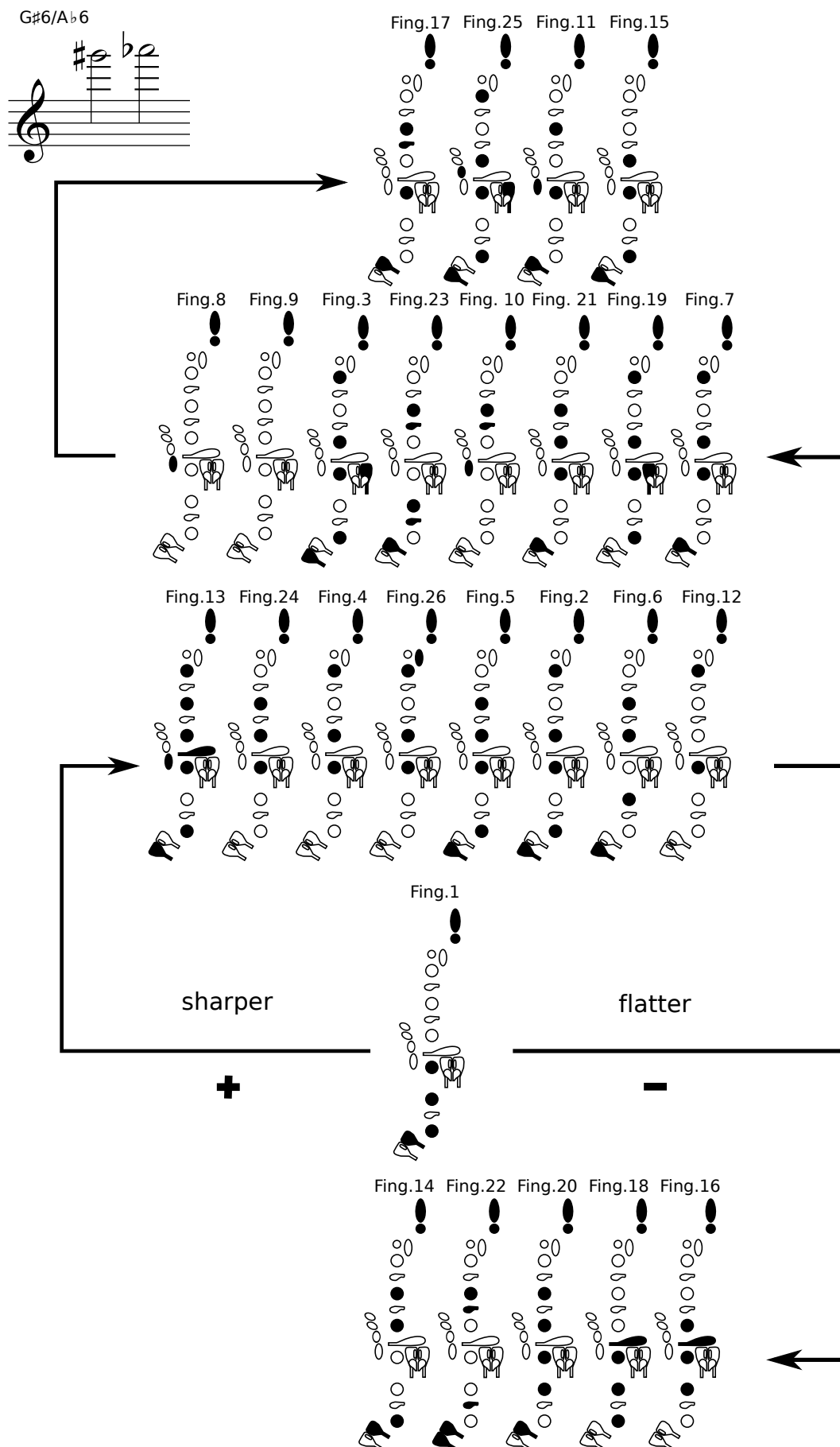


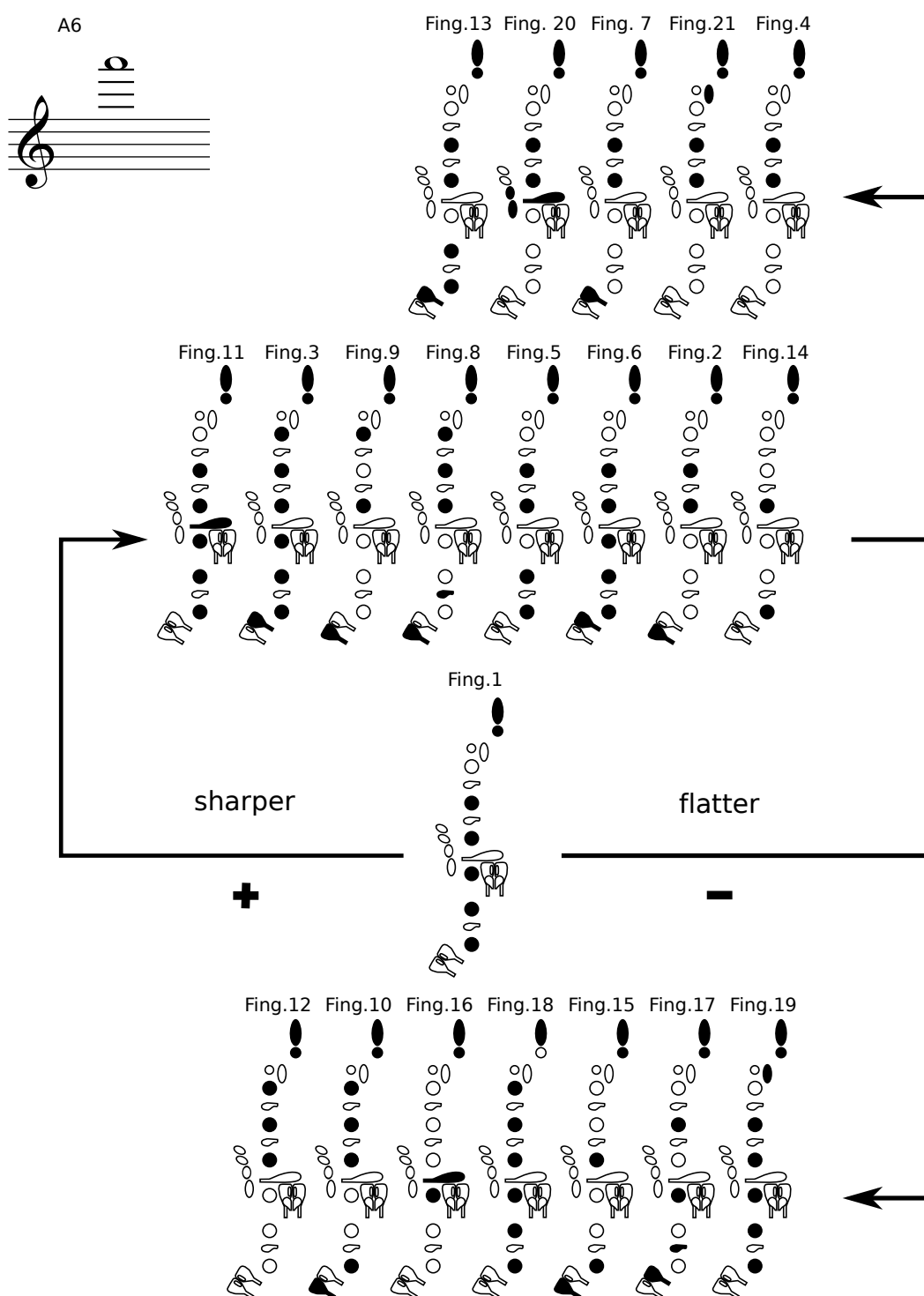


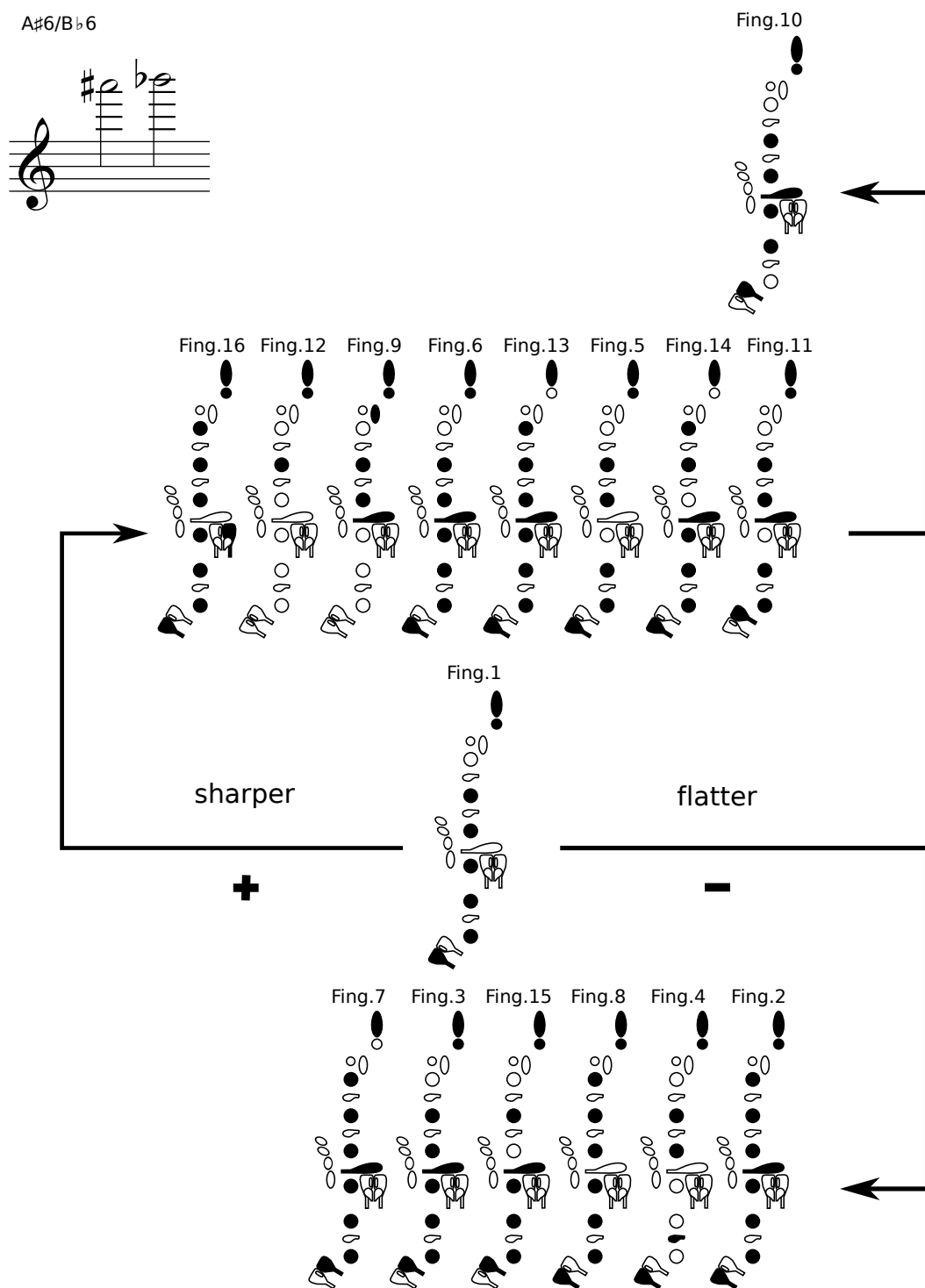
F#6/Gb6

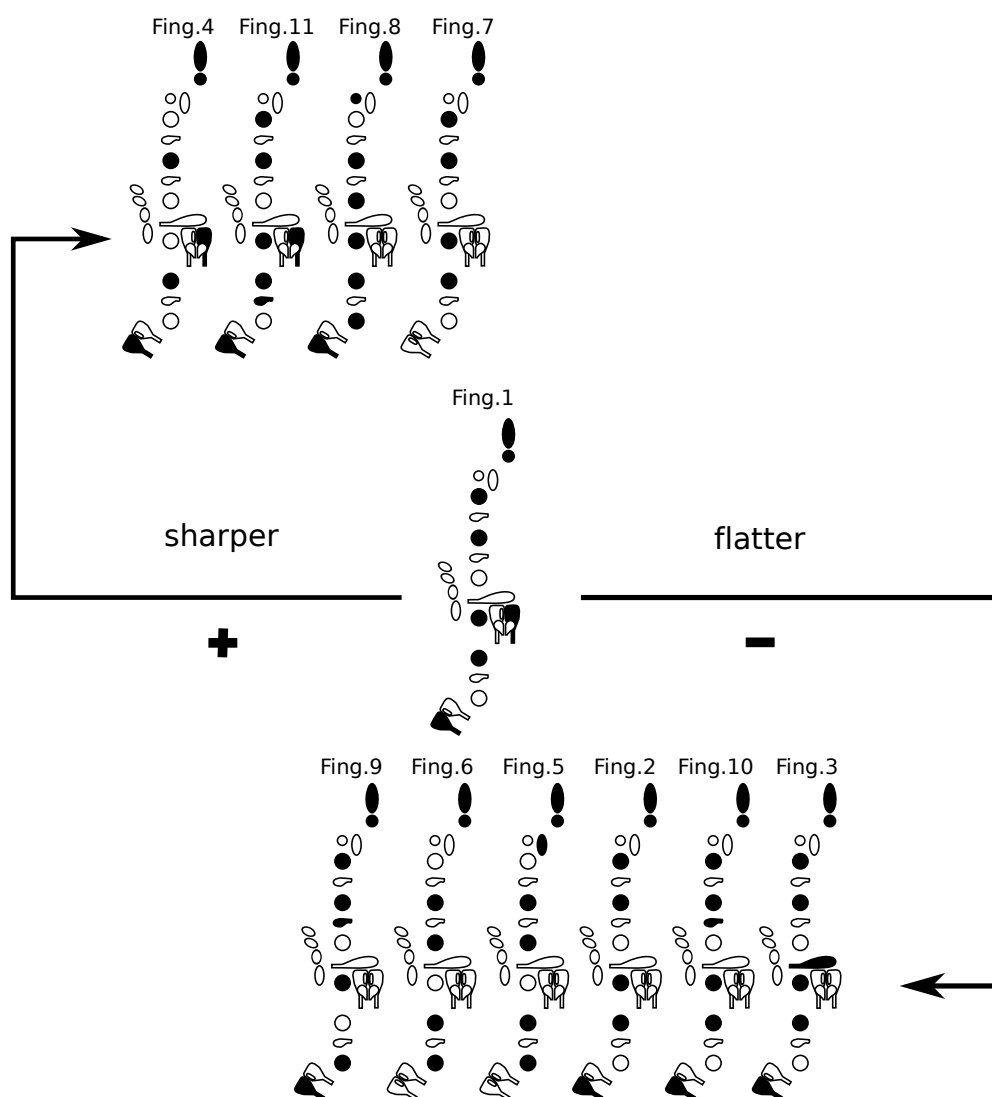
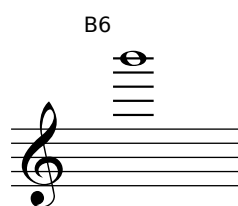


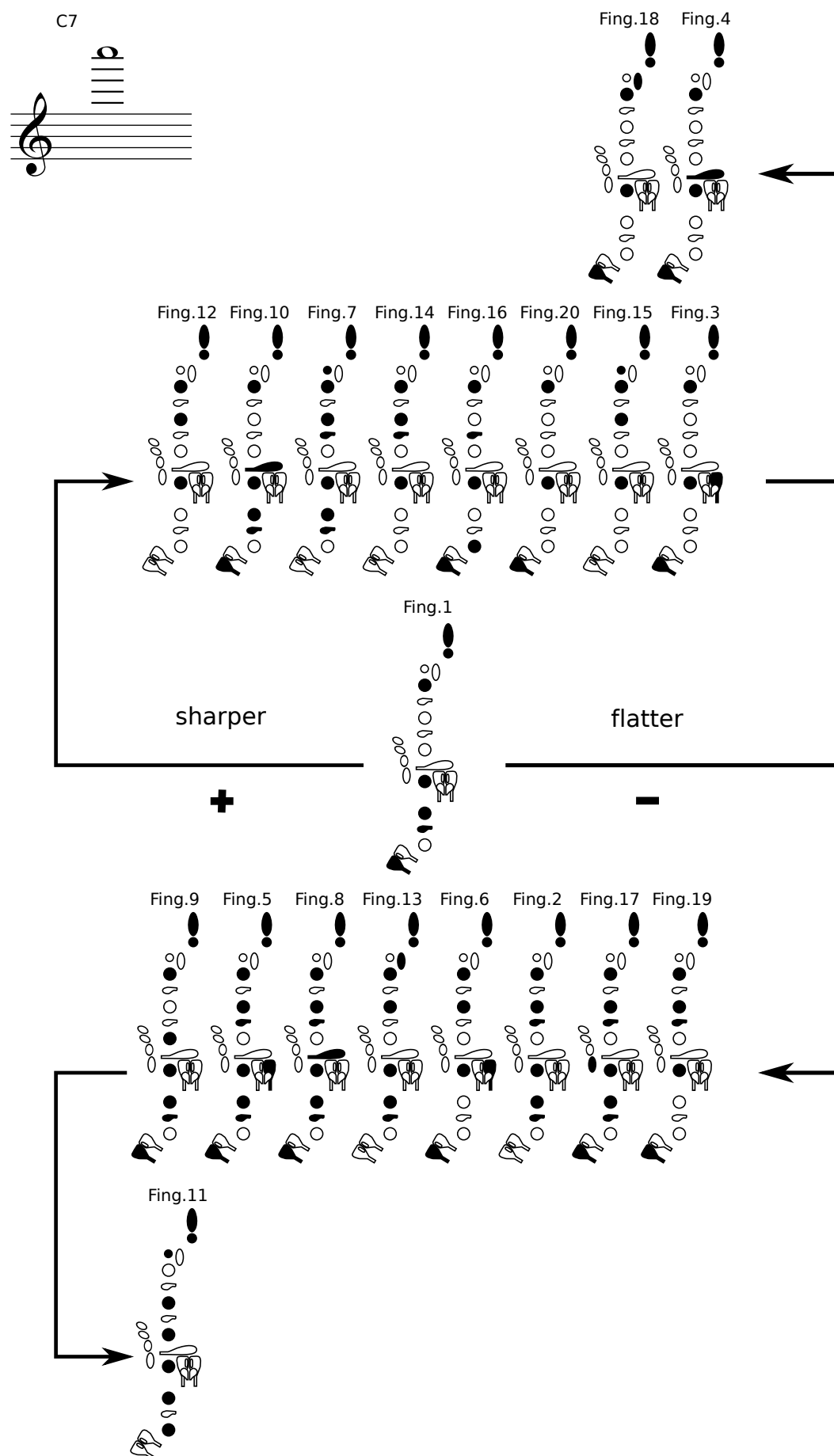












# Bibliography

- Baermann, C. and Schubert, O. (1917). *Klarinetten Schule*, volume Erster Teil, op. 63, 502a edition (Johann André).
- Bah, T. (2009). *Inkscape: Guide to a Vector Drawing Program (Digital Short Cut)* (Pearson Education).
- Bender, H. (1879). *Praktischer Lehrgang für das Klarinettenspiel* (Henry Litolf’s Verlag, Braunschweig).
- Feller, D. (1984). “Comparison of the Oehler and Boehm clarinet fingering systems”, *The Clarinet* **11**, 24–30.
- Jettel, R. (1950). *Klarinettenschule: von den Anfangsgründen bis zur höchsten virtuosen Vollendung in 3 Bänden, Teil 1 A* (Doblinger).
- Jettel, R. (1961). *Klarinettenschule* (Solisten Verlag Wien).
- Kietzer, R. and Kohl, L. (1949). *Schule für Klarinette* (Musikverlag Wilhelm Zimmermann).
- Koch, E. (1989). *Schule für Klarinette in B: deutsches und französisches System* (Deutscher Verlag für Musik).
- Koch, E. (2002). *Schule für Klarinette in B: deutsches und französisches System* (Deutscher Verlag für Musik).
- Krassnitzer, G. (2002). *Multiphonics für Klarinette mit deutschem System und andere zeitgenössische Spielarten.*[*Multiphonics for clarinet with german system and other contemporary styles.*] ed (Edition Ebenso Verlag).
- Pilgerstorfer, A. (1995). “Umfassende Griffabelle für die deutsche Klarinette sowie Impedanzanalyse aller Töne”, Master’s thesis, Institute of Music Acoustics/Vienna.
- Schneider, W. (1966). *Erstes Klarinettenspiel: Lieder, Tänze und Kanons für 1-3 Klarinetten* (Schott).
- Schneider, W. and Aegler, G. (1997). *Neue Klarinettenschule, (Deutsches System und Böhmssystem, auch zum Selbstunterricht)*, volume Band 2 (Schott).
- Vollstedt, R. (1940). *Schule für die Klarinette* (Edwin Müller-Krassow).
- Wimmer, C. J. (1983). *Grundschule für Klarinette 1* (Preissler).