## BIBLE REGAL - SHEET 1/6

useum - Musikhistorisk Museum og Carl Claudius' Samling Inv. no. CL 596. Unknown maker.
Measured and drawn by Ture Bergstrøm 1969-1972 The Danish Musital format by Ture Be 2015

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The set of drawings consists of 6 sheets in A2 size

The instrument consists of:
-Chest with keyboard, windchest and pipes, divided in 4 sections
marked A, B, C, and D, respectively

- 2 wind-trunks leading air from the bellows to the windchest, marked A and B , respectively
- 2 bellows hinged together with leather strips

2 weights of lead covered with leather (not original, hence not measured)

- 4 sliding covers behind the pipes (not original, hence not measured)

The compass is C-b" minus lowest C\#
The material is oak unless otherwise specified.
All measurements are in mm . Hatching indicates end grain.

Left bellows
Only the left bellows (seen from the player) has been measured in detail.
The right bellows is by and large
a reflected image of the left one.


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BIBLE REGAL - SHEET 2/6
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Cross section of a bellows 1:2




BIBLE REGAL - SHEET 3/6

## without keys and pipe

measured at section C


## $\underset{\text { Wind-trunk }}{\text { leading air from }}$ <br> leading air from the bellows to the wind chest. The two identical wind-trumss

The twoi identical wind.trunksk are wanindedestesten
on a red priming. They are marked and B erespectively.


Length section of a part of the windchest 2:1

$\underset{\text { of boxwood }}{\text { Natural ke }}$

left side of lowermost key (C) and



Sharp key
of stained pearwo
end view (the key
end view (hhe key
is pressed down)

Keyboard
measured a s section C. Minor deviations from this are found on B and D.
OnA, he cev C\# has been omitted.
The spaces bctwen
OnA t the key C C than bisen om omitided.
The spaces between keys are $<0.5 \mathrm{~mm}$.


Upper part of chest section C with the position of the stickers




$2.5=\frac{2.5}{8-8}$ $\qquad$


$\underset{\substack{\text { shoction D, backside } \\ \text { shor }}}{ }$


Pipes
Materials:
block pearwood, each marked with note name
Slock: pearwood, each marked
wedge (not measured):
tunine (nite measured): :parwood
shallow: tinined iron, 10.4 mm ; the soldered-in end piece is perpendicular to the shallot shallot: tinned i
tongue: brass


|  |  | $b$ |  | d | $e$ |  | $g$ | h | $i$ |  | $k$ | 1 | $m$ | $n$ | $o$ | $p$ | q | $r$ | $s$ | $t$ | $u$ | $v$ | w | $x$ | $y$ | $z$ | $\ldots$ | $\beta$ | $\gamma$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | 17.0 | 11.5 | 11.8 | 6.5 | 1.5 | 6.0 | 10.5 | 16.5 | 13.9 | 10.4 | 5.0 | 6.1 | 7.0 | 4.7 | 4.5 | 4.1 | 5.1 | 36.5 | 1.9 | 1.9 | 48.0 | 3.8 | 5.3 | 6.3 | 0.14 | 0.14 | 46 | 0.5 | 2.0 |
| D | 17.0 | 11.5 | 12.5 | 7.0 | 2.0 | 6.0 | 10.8 | 16.3 | 13.9 | 10.4 | 5.8 | 5.6 | 6.5 | 4.7 | 4.1 | 3.8 | 5.0 | 37.0 | 1.5 | 1.5 | 47.5 | 3.8 | 5.0 | 6.7 | 0.12 | 0.11 |  | 0.2 | 2.0 |
| Eb | 17.0 | 11.5 | 12.0 | 7.0 | 1.8 | 6.0 | 10.7 | 16.0 | 14.0 | 10.4 | 5.5 | 5.9 | 7.2 | 4.9 | 4.4 | 3.7 | 5.1 | 36.0 | 1.4 | 1.4 | 46.5 | 2.8 | 5.4 | 6.6 | 0.16 | 0.14 | 46 | -0.2 | 2.0 |
| E | 17.0 | 11.5 | 12.5 | 6.5 | 1.9 | 6.0 | 10.7 | 16.5 | 14.0 | 10.4 | 5.8 | 5.8 | 6.5 | 5.4 | 5.0 | 2.3 | 4.1 | 34.8 | 1.9 | 1.9 | 45.5 | 2.7 | 4.8 | 6.3 | 0.12 | 0.11 | 41 | 0.8 | 1.4 |
| F | 17.0 | 11.5 | 12.5 | 7.0 | 2.0 | 6.5 | 10.8 | 16.7 | 14.0 | 10.4 | 6.0 | 6.1 | 6.8 | 4.9 | 4.8 | 3.9 | 4.2 | 35.7 | 1.5 | 1.5 | 46.4 | 4.0 | 5.5 | 6.7 | 0.12 | 0.12 |  | 1.0 | 1.5 |
| F\# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G | 17.0 | 11.7 | 12.3 | 7.0 | 1.5 | 6.7 | 11.4 | 17.0 | 14.0 | 11.0 | 6.4 | 6.4 | 6.9 | 4.8 | 4.5 | 4.0 | 5.1 | 34.0 | 1.0 | 1.0 | 44.6 | 2.7 | 5.5 | 6.7 | 0.13 | 0.13 | 44 | 0.2 | 1.2 |
| G\# | 17.0 | 11.8 | 12.2 | 7.0 | 1.4 | 6.5 | 11.0 | 16.5 | 14.0 | 11.1 | 6.0 | 6.2 | 6.7 | 4.4 | 4.3 | 4.4 | 5.0 | 33.0 | 1.2 | 1.2 | 43.5 | 4.6 | 5.7 | 6.7 | 0.12 | 0.12 |  | 0.4 | 1.2 |
| A | 17.0 | 11.6 | 12.0 | 6.8 | 1.4 | 6.0 | 11.0 | 16.5 | 14.0 | 11.4 | 4.5 | 6.2 | 6.6 | 5.7 | 4.4 | 3.8 | 4.7 | 31.9 | 1.5 | 1.5 | 43.9 | 3.5 | 5.2 | 6.7 | 0.12 | 0.13 | 42 | 0.8 | 1.2 |
| Bb | 17.0 | 11.3 | 12.0 | 6.8 | 1.9 | 6.0 | 10.8 | 16.4 | 14.0 | 10.2 | 5.3 | 6.4 | 6.8 | 4.6 | 4.3 | 4.0 | 4.6 | 32.5 | 1.5 | 1.5 | 45.6 | 3.4 | 4.7 | 6.6 | 0.15 | 0.14 | 42 | 0.1 | 1.2 |
| B | 17.0 | 11.7 | 12.0 | 6.8 | 1.4 | 6.0 | 11.0 | 16.8 | 14.0 | 10.5 | 5.0 | 6.0 | 6.3 | 4.3 | 4.3 | 4.7 | 4.8 | 30.4 | 1.6 | 1.6 | 42.2 | 2.8 | 5.7 | 6.5 | 0.12 | 0.12 | 46 | 0.0 |  |
| c | 17.0 | 11.7 | 11.4 | 7.0 | 1.0 | 6.0 | 11.0 | 16.8 | 13.9 | 9.7 | 6.2 | 5.7 | 6.2 | 4.0 | 3.7 | 4.3 | 5.0 | 31.4 | 0.9 | 0.9 | 42.0 | 4.3 | 6.0 | 6.4 | 0.15 | 0.15 | 38 | 0.1 | 1.0 |
| c\# | 17.0 | 11.0 | 11.5 | 6.5 | 1.4 | 7.0 | 11.0 | 16.8 | 14.2 | 9.5 | 6.0 | 5.3 | 5.8 | 4.1 | 3.5 | 4.1 | 4.8 | 30.0 | 1.4 | 1.4 | 40.8 | 3.6 | 5.8 | 6.3 | 0.15 | 0.14 | 37 | 0.0 | 1.0 |
| d | 17.0 | 10.8 | 11.5 | 6.0 | 1.4 | 7.0 | 11.0 | 17.0 | 14.2 | 10.0 | 7.0 | 5.4 | 6.2 | 4.2 | 3.9 | 3.7 | 5.2 | 30.9 | 1.8 | 1.8 | 40.9 | 2.9 | 5.0 | 5.9 | 0.14 | 0.14 | 39 | 0.0 | 1.0 |
| eb | 17.0 | 10.9 | 11.5 | 6.5 | 1.7 | 7.0 | 11.0 | 16.8 | 14.2 | 9.9 | 5.4 | 5.5 | 6.3 | 3.9 | 4.2 | 4.4 | 5.0 | 28.6 | 1.8 | 1.8 | 40.0 | 3.8 | 5.7 | 6.5 | 0.12 | 0.12 | 36 | 1.0 | 1.0 |
| e | 17.0 | 11.0 | 11.9 | 7.0 | 1.5 | 6.5 | 11.0 | 17.0 | 14.2 | 9.7 | 5.4 | 5.5 | 6.1 | 4.4 | 4.3 | 3.7 | 4.4 | 27.9 | 1.9 | 1.9 | 39.5 |  |  |  |  |  |  |  |  |
| f | 17.5 | 11.3 | 12.5 | 7.0 | 1.5 | 6.5 | 11.0 | 16.7 | 14.2 | 10.2 | 7.5 | 5.2 | 5.8 | 4.3 | 3.9 | 3.3 | 4.5 | 30.1 | 1.5 | 1.5 | 39.3 | 3.9 | 5.4 | 6.0 | 0.15 | 0.13 | 35 | 1.2 | 1.0 |
| f\# | 17.5 | 11.4 | 12.5 | 6.5 | 1.5 | 6.0 | 11.0 | 16.5 | 14.2 | 9.3 | 5.5 | 5.5 | 5.6 | 4.2 | 4.1 | 4.1 | 4.8 | 27.5 | 1.6 | 1.6 | 38.5 | 3.2 | 5.4 | 6.0 | 0.16 | 0.14 | 34 | 1.0 | 1.0 |
| g | 17.0 | 11.0 | 12.2 | 7.0 | 1.6 | 6.0 | 11.0 | 16.5 | 13.8 | 10.4 | 4.4 | 5.5 | 6.1 | 4.0 | 3.9 | 4.2 | 5.0 | 26.0 | 1.3 | 1.3 | 38.1 | 3.5 | 5.9 | 6.3 | 0.11 | 0.12 | 31 | 0.3 | 1.0 |
| g\# | 17.0 | 11.0 | 12.5 | 6.5 | 2.0 | 6.5 | 11.0 | 16.8 | 14.4 | 9.8 | 5.0 | 5.5 | 6.0 | 3.9 | 3.6 | 4.0 | 5.0 | 25.5 | 1.5 | 1.5 | 37.3 | 2.8 | 5.6 | 6.6 | 0.12 | 0.12 | 34 | 0.3 | 0.5 |
| a | 17.5 | 11.4 | 12.3 | 6.5 | 2.0 | 6.0 | 11.0 | 16.8 | 14.2 | 9.8 | 6.8 | 5.5 | 6.4 | 4.2 | 4.0 | 4.1 | 4.9 | 26.8 | 1.4 | 0.5 | 36.8 | 2.9 | 6.0 | 5.9 | 0.15 | 0.14 | 35 | 0.0 | 0.8 |
| bb | 17.0 | 10.7 | 12.0 | 7.0 | 1.8 | 6.5 | 11.0 | 16.8 | 14.2 | 10.0 | 6.0 | 5.5 | 6.1 | 4.1 | 4.0 | 4.1 | 4.8 | 24.8 | 1.9 | 1.9 | 35.6 | 4.0 | 5.9 | 6.1 | 0.12 | 0.11 | 30 | 0.4 | 1.0 |
| b | 17.5 | 11.5 | 12.2 | 7.0 | 1.6 | 6.5 | 11.0 | 16.8 | 14.0 | 10.0 | 5.4 | 5.5 | 6.0 | 4.0 | 4.0 | 4.4 | 5.0 | 24.2 | 2.0 | 2.0 | 35.6 | 4.0 | 6.0 | 6.1 | 0.13 | 0.14 | 33 | 0.0 | 0.5 |
| $\mathrm{c}^{\prime}$ | 17.5 | 11.5 | 12.0 | 6.0 | 2.5 | 6.5 | 11.3 | 17.2 | 14.5 | 10.0 | 4.2 | 5.3 | 5.5 | 4.1 | 4.0 | 3.0 | 3.7 | 21.5 | 1.4 | 0.9 | 34.5 |  |  |  |  |  |  |  |  |
| c\# | 17.5 | 11.5 | 12.0 | 6.0 | 2.2 | 6.0 | 10.8 | 16.5 | 14.2 | 9.7 | 5.0 | 5.2 | 5.4 | 3.9 | 3.6 | 3.6 | 4.2 | 22.2 | 1.9 | 1.9 | 33.7 |  |  |  |  |  |  |  |  |
| $\mathrm{d}^{\prime}$ | 17.5 | 11.5 | 12.0 | 6.0 | 2.2 | 6.0 | 11.4 | 16.6 | 14.5 | 9.9 | 5.1 | 5.0 | 5.4 | 3.5 | 3.5 | 3.7 | 4.3 | 22.0 | 1.9 | 1.2 | 33.5 |  |  |  |  |  |  |  |  |
| eb' | 17.5 | 11.5 | 12.0 | 6.0 | 2.5 | 6.0 | 10.4 | 16.4 | 14.7 | 10.3 | 4.1 | 4.5 | 5.6 | 3.3 | 3.5 | 3.8 | 4.6 | 20.5 | 1.5 | 1.0 | 32.8 |  |  |  |  |  |  |  |  |
| $\mathrm{e}^{\prime}$ | 17.5 | 11.5 | 12.0 | 6.0 | 2.5 | 6.5 | 11.0 | 16.3 | 14.3 | 9.8 | 5.0 | 5.1 | 5.3 | 3.5 | 3.6 | 3.9 | 4.1 | 22.9 | 1.8 | 1.8 | 34.2 | 3.0 | 5.0 | 5.9 | 0.12 | 0.12 | 30 | 0.6 | 0.6 |
| f | 17.5 | 10.8 | 11.5 | 6.0 | 2.2 | 6.0 | 10.8 | 16.3 | 13.9 | 10.2 | 3.2 | 4.8 | 5.4 | 3.7 | 3.6 | 3.3 | 3.9 | 20.5 | 1.5 | 1.5 | 33.6 | 4.1 | 5.4 | 6.2 | 0.12 | 0.12 | 25 | 0.4 | 0.7 |
| f\#' | 17.5 | 11.0 | 12.0 | 6.0 | 2.5 | 6.0 | 10.0 | 16.4 | 14.2 | 9.5 | 5.1 | 5.0 | 5.1 | 3.7 | 3.9 | 3.6 | 3.9 | 21.6 | 1.5 | 1.5 | 32.9 | 3.7 | 5.5 | 6.1 | 0.11 | 0.11 | 29 | 0.0 | 0.5 |
| $\mathrm{g}^{\prime}$ | 17.5 | 11.3 | 12.0 | 6.0 | 2.0 | 6.0 | 10.0 | 16.2 | 14.2 | 10.1 | 7.2 | 5.0 | 5.3 | 3.5 | 3.3 | 3.2 | 4.0 | 22.9 | 1.7 | 1.1 | 31.9 | 4.0 | 4.8 | 5.9 | 0.12 | 0.11 | 27 | 0.3 | 0.5 |
| g\#t | 17.5 | 11.0 | 12.0 | 6.0 | 3.0 | 6.0 | 10.3 | 16.7 | 13.9 | 9.5 | 3.5 | 4.9 | 5.4 | 3.5 | 3.4 | 3.7 | 4.3 | 18.5 | 1.8 | 1.0 | 31.7 |  |  |  |  |  |  |  |  |
| $\mathrm{a}^{\prime}$ | 17.5 | 11.0 | 12.0 | 6.0 | 2.4 | 6.0 | 10.0 | 16.5 | 14.2 | 9.9 | 4.1 | 4.9 | 5.2 | 3.3 | 3.3 | 3.9 | 4.1 | 18.8 | 1.8 | 1.0 | 31.2 | 3.3 | 5.1 | 5.4 | 0.13 | 0.12 | 28 | 0.7 | 0.4 |
| bb' | 17.5 | 11.0 | 12.0 | 6.0 | 2.8 | 6.5 | 10.5 | 16.0 | 14.0 | 9.1 | 5.0 | 4.7 | 5.2 | 3.4 | 3.3 | 3.3 | 4.1 | 18.4 | 1.4 | 1.0 | 29.4 | 3.0 | 4.9 | 5.8 | 0.13 | 0.10 | 28 | 0.7 | 0.5 |
| $\mathrm{b}^{\prime}$ | 17.5 | 11.0 | 12.0 | 5.5 | 2.0 | 6.0 | 10.0 | 15.8 | 13.8 | 9.5 | 5.5 | 5.0 | 5.4 | 3.6 | 3.5 | 3.3 | 4.3 | 19.4 | 1.5 | 0.9 | 29.7 | 3.3 | 5.0 | 5.3 | 0.12 | 0.11 | 27 | 0.1 | 0.4 |
| $\mathrm{c}^{\prime \prime}$ | 17.8 | 10.6 | 12.5 | 6.3 | 2.4 | 6.0 | 10.6 | 16.5 | 14.0 | 9.7 | 5.0 | 5.0 | 5.5 | 3.5 | 3.4 | 3.7 | 4.7 | 17.4 | 1.6 | 0.9 | 28.9 | 3.0 | 4.7 | 5.5 | 0.12 | 0.12 | 27 | 0.7 | 0.4 |
| c\#\# | 17.8 | 10.8 | 12.5 | 6.3 | 2.8 | 6.0 | 10.1 | 16.2 | 14.0 | 9.7 | 4.5 | 4.9 | 5.2 | 3.4 | 3.3 | 3.9 | 4.2 | 16.5 | 1.6 | 1.2 | 28.2 | 3.4 | 4.6 | 5.8 | 0.06 | 0.06 | 25 | 0.3 | 0.4 |
| d" | 17.7 | 10.8 | 12.5 | 6.3 | 2.3 | 6.0 | 10.5 | 16.0 | 14.0 | 9.7 | 5.3 | 4.7 | 5.0 | 3.7 | 3.5 | 3.4 | 3.8 | 16.8 | 1.8 | 1.0 | 27.5 |  |  |  |  |  |  |  |  |
| eb" | 17.7 | 10.8 | 12.3 | 6.3 | 2.5 | 6.0 | 10.1 | 16.1 | 14.0 | 9.7 | 4.6 | 4.7 | 4.9 | 3.6 | 3.8 | 3.3 | 3.7 | 15.8 | 1.6 | 1.6 | 27.3 | 3.2 | 4.5 | 5.4 | 0.14 | 0.11 | 22 | 0.9 | 0.3 |
| e" | 17.7 | 10.8 | 12.5 | 6.4 | 2.2 | 6.0 | 10.2 | 16.1 | 14.0 | 10.0 | 1.5 | 4.8 | 5.2 | 3.4 | 3.3 | 3.5 | 3.9 | 11.8 | 1.6 | 1.6 | 26.4 | 2.8 | 4.9 | 5.5 | 0.12 | 0.09 | 21 | 0.3 | 0.3 |
| $\mathrm{f}^{\prime \prime}$ | 17.7 | 10.8 | 12.0 | 6.3 | 2.0 | 6.0 | 10.2 | 16.2 | 13.8 | 9.8 | 1.2 | 4.4 | 4.8 | 3.4 | 3.4 | 3.2 | 3.3 | 11.6 | 1.5 | 1.5 | 26.6 | 4.0 | 4.5 | 5.0 | 0.07 | 0.07 | 26 | 0.4 |  |
| f\#" | 17.7 | 10.8 | 12.4 | 6.3 | 2.4 | 6.5 | 11.0 | 16.5 | 13.8 | 9.7 | 1.8 | 4.5 | 4.8 | 3.3 | 3.1 | 3.4 | 3.6 | 11.3 | 1.4 | 1.0 | 26.0 | 3.8 | 4.5 | 4.8 | 0.07 | 0.07 | 25 | 0.4 | 0.3 |
| g" | 17.0 | 10.8 | 10.9 | 6.3 | 1.8 | 5.5 | 10.9 | 16.0 | 13.6 | 9.5 | 2.7 | 4.5 | 5.1 | 3.2 | 3.0 | 3.2 | 3.8 | 11.9 | 1.4 | 0.7 | 25.2 | 4.0 | 4.7 | 5.1 | 0.07 | 0.07 | 25 | 0.4 | 0.3 |
| g\#" | 17.5 | 10.8 | 11.0 | 6.3 | 2.3 | 6.0 | 10.7 | 16.4 | 13.7 | 9.7 | 5.0 | 4.5 | 4.9 | 3.0 | 3.2 | 3.4 | 3.8 | 15.2 | 1.5 | 1.5 | 26.6 | 3.3 | 4.4 | 4.5 | 0.06 | 0.06 | 24 | 0.7 | 0.3 |
| $\mathrm{a}^{\prime \prime}$ | 17.5 | 10.6 | 12.8 | 6.3 | 2.4 | 6.0 | 10.7 | 16.0 | 13.5 | 9.5 | 3.8 | 4.3 | 4.8 | 3.3 | 3.2 | 3.3 | 4.0 | 12.8 | 1.5 | 1.5 | 25.0 | 3.9 | 4.5 | 4.9 | 0.06 | 0.06 | 25 | 1.3 | 0.3 |
| bb" | 17.5 | 10.1 | 11.5 | 6.3 | 2.8 | 6.0 | 10.7 | 16.3 | 13.2 | 9.5 | 3.3 | 4.4 | 5.1 | 3.2 | 3.0 | 3.5 | 4.0 | 11.0 | 1.7 | 1.7 | 24.0 | 3.0 | 4.3 | 4.4 | 0.08 | 0.08 | 18 | 0.4 | 0.3 |
| $\mathrm{b}^{\prime \prime}$ | 17.5 | 9.6 | 12.4 | 6.3 | 2.8 | 6.0 | 10.8 | 16.6 | 13.2 | 8.3 | 5.3 | 4.7 | 5.0 | 2.9 | 2.9 | 3.4 | 3.9 | 11.8 | 2.0 | 1.0 | 23.1 | 3.0 | 4.6 | 4.8 | 0.08 | 0.07 | 19 | 0.5 | 0.3 |


[^0]:    leather hinge
    connecting the two bellow

