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# Gedankenfabrik

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12 instruments (flute, clarinet, oboe, bassoon, two trombones, percussion, piano, violin I, violin II, viola, violoncello) and electroacoustic sounds. [ca. 9'00] Premiered by GeMUnB – Brasília New Music Ensemble (Jorge Antunes, conductor), Brasília, November 2003. Audio file is tape part only\*  
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# Gedankenfabrik

Bruno Ruviano  
2003

("Zwar ist's mit der Gedankenfabrik")

$\text{♩} = 60$

Flute *f*

Oboe *f* *gliss.*

Clarinet in Bb [concert pitch] *f*

Bassoon *f* *p*

Trombone 1 *f* *gliss.*

Trombone 2 *f*

Percussion *f* susp. cymbal

Piano *f* *8va*

Violin I *f* *gliss.*

Violin II *f* *gliss.* *pizz.*

Viola *f* *8va* *pizz.*

Violoncello *f* *gliss.*

2

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

8va

8vb

pizz.

arco

gliss.

accel.

("Wie mit einem Weber-Meisterstück")

♩ = 75

Fl. *f* *flatt.* *mp* *gliss.* *nat.*

Ob. *p*

Cl. *mp*

Bsn. *mf* *gliss.* *mp*

Tbn. 1 *mf*

Tbn. 2 *mf*

Perc.

Pno. *f* *poco Ped.*

Vln. I *f* *arco* *gliss.*

Vln. II *f* *arco*

Vla.

Vc.



8 (tr) flatt. nat.

Fl.

Ob.

Cl.

Bsn.

Tbn. 1 flatt. (nat.)

Tbn. 2 flatt. (nat.)

Perc. snare drum [snare on] f

Pno. f mf p 8va 3 Red.

Vln. I pizz. (fast & irregular) (pizz.) *meno f*

Vln. II pizz. (fast & irregular) (pizz.) *meno f*

Vla. pizz. (fast & irregular) (pizz.) *meno f*

Vc. pizz. (fast & irregular) arco *meno f* f mf

("Die Fäden ungesehen fließen / Ein Schlag tausend Verbindungen schlägt")

11

CD

Fl. *f* *8va* *3*

Ob. *f* *flatt.* *nat.* *3*

Cl. *f*

Bsn. *f*

Tbn. 1 *f* *flatt.* *nat.*

Tbn. 2 *f*

Perc. *susp. cymbal*

Pno. *f* *15ma* *8va* *mp*

Vln. I *arco* *f* *3* *pizz.*

Vln. II *arco* *molto vibrato* *f* *3* *pizz.*

Vla. *arco* *molto vibrato* *f* *3* *pizz.*

Vc. *f* *3* *pizz.*

Detailed description: This is a page of a musical score for a symphony orchestra, page 11. The score is arranged in a standard orchestral layout with staves for woodwinds, brass, percussion, piano, and strings. The key signature has one flat (B-flat major or D minor) and the time signature is 4/4. The music is marked with a forte (*f*) dynamic throughout. The woodwind section (Flute, Oboe, Clarinet, Bassoon, Trumpet 1, Trumpet 2) features complex rhythmic patterns with triplets and slurs. The Oboe part includes markings for 'flatt.' and 'nat.'. The brass section (Trumpet 1, Trumpet 2) plays a more rhythmic accompaniment. The percussion part includes a 'susp. cymbal' effect. The piano part has a complex texture with multiple layers of notes, including a '15ma' (15th harmonic) and '8va' (8th octave) markings. The string section (Violin I, Violin II, Viola, Violoncello) is marked 'arco' and 'molto vibrato', with some parts including triplets and pizzicato ('pizz.') markings. The score concludes with a double bar line and repeat signs.

14 **0'00"** **0'04"** **0'07"** **0'10"** **0'13"**

CD  $\frac{4}{4}$   $\frac{3}{4}$

Fl.  $\text{♩} = 60$   
*f*  $\text{p}$  3

Ob. *f*  $\text{p}$

Cl. *f*  $\text{p}$  3 *pp* 3

Bsn. *f*  $\text{p}$  3

Tbn. 1 *f senza dim.* *mf*

Tbn. 2 *f senza dim.* *mf*

Perc. susp. cymbal [metal beater] *f*

Pno. *f* *mf*

Vln. I arco  $\text{♩} = 60$  *fp* *gliss.* *mf* *gliss.* *p* *gliss.* *pp*

Vln. II arco *fp* *gliss.* *mf* *gliss.* *p* *pp*

Vla. arco *f senza dim.* *mp*

Vc. arco *f senza dim.* *mp* *ppp*







40 1'19"

1'25"

CD

Fl.

Ob. *p*

B.Ci. *p*

Bsn.

Tbn. 1

Tbn. 2

Perc. Arms off the strings — open strings (with cloths)

Pno. *mf*

Vln. I

Vln. II

Vla.

Vc.

Detailed description: This page of a musical score covers measures 40 to 42. The score is for a CD and includes parts for Flute (Fl.), Oboe (Ob.), Bassoon (B.Ci.), Bassoon (Bsn.), Trumpet 1 (Tbn. 1), Trumpet 2 (Tbn. 2), Percussion (Perc.), Piano (Pno.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), and Violoncello (Vc.). The CD part is a single line with a rest. The Flute part has a whole rest. The Oboe and Bassoon parts play a melodic line starting with a triplet of eighth notes, marked *p*. The Bassoon part has a triplet of eighth notes marked *p*. The Trumpet 1 and 2 parts play a rhythmic pattern of eighth notes with various articulations and slurs. The Percussion part has a rest with the instruction "Arms off the strings — open strings (with cloths)". The Piano part plays a melodic line with a triplet of eighth notes, marked *mf*. The Violin I, Violin II, Viola, and Violoncello parts have whole rests.

43 1'28"

CD

Fl. *p* *flatt.*

Ob.

B.Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc. Dampen low and high strings using both arms (all notes that the pianist will play in this passage must be included). Arm pressure may be varied between *forte* and *mezzo-forte*, that means, "completely dampened" and "partially dampened".

Pno. ∞ -----> (...)

(... Ped. sempre ...)

Vln. I

Vln. II

Vla.

Vc.

The image shows a page of a musical score for measures 43 and 44, marked with a rehearsal sign '1'28\". The score is for a CD recording. The instruments listed on the left are Flute (Fl.), Oboe (Ob.), Bass Clarinet (B.Cl.), Bassoon (Bsn.), Trumpet 1 (Tbn. 1), Trumpet 2 (Tbn. 2), Percussion (Perc.), Piano (Pno.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), and Violoncello (Vc.). The Flute part starts with a piano (*p*) dynamic and includes a *flatt.* (flattened) instruction. The Percussion part has a detailed instruction: 'Dampen low and high strings using both arms (all notes that the pianist will play in this passage must be included). Arm pressure may be varied between *forte* and *mezzo-forte*, that means, "completely dampened" and "partially dampened\". The Piano part includes a pedal instruction: '(... Ped. sempre ...)'. The score features various musical notations such as triplets, quintuplets, and septuplets, as well as slurs and dynamic markings.

45 1'34"

1'40"

CD

Fl. nat. flatt. nat. *mf*

Ob. 3 flatt. nat. *mf*

B.Cl. flatt. clarinet nat. *mf*

Bsn. 3 flatt. nat. *mf*

Tbn. 1 7 flatt. *mf*

Tbn. 2 *mf*

Perc. Open strings — arms and cloths off susp. cymbal

Pno. *mf* \* Red.

Vln. I pizz. *mf*

Vln. II pizz. *mf*

Vla. pizz. *mf*

Vc. pizz. *mf*

49 **1'46"** **1'52"** **1'58"**

CD

Fl. *f*

Ob. *f*

Cl. *f*

Bsn. *f*

Tbn. 1 *fp* *mf* con sord. (cup)

Tbn. 2 *fp* *mf* con sord. (cup)

Perc. *f*

Pno. *f* *mp*

Vln. I arco *f* *meno f* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.* *gliss.*

Vln. II arco *f* *gliss.*

Vla. arco *f* *écrasé. (\*)* ..... nat. poco a poco sul pont.

Vc. arco *f* *écrasé. (\*)* ..... nat.

(\*) "écrasé": bow the string with exaggerated pressure (overpressure), producing a very noisy, strident sound.



59 **2'16"** **2'22"** **2'28"** **2'34"**

CD

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

*pp*

*mp*

*p*

*sfp*

*mf*

*f*

*pp*

*mp*

*gliss*

Cloths off the higher strings. Use fingertips to press and hold firmly the strings corresponding to the following notes. Play them by quickly releasing the fingers as strongly as possible.

Cloths on the strings. Use both arms to partially dampen a large number of notes, always including the ones to be played by the pianist.

less arm pressure (less dampening)

67 2'40"

2'46"

CD

Fl. *p* *gliss. gliss.*

Ob. *pp*

Cl.

Bsn. *mp* *p*

Tbn. 1

Tbn. 2

Perc. "pizzicato" on the strings

Pno. *p* *mf*  
\* *Ped. sostenuto*

Vln. I *pizz.* *mf* *p* *mf* *fingering only*

Vln. II *pizz. sul G* *mf* *gliss.* *fingering only* *mf* *pizz. (fast, irregular)*

Vla. *pizz. con vibrato* *mf* *stop this note after pizz. on C* *3* *fingering only*

Vc. *mf* *pizz.* *stop this note after pizz. on C* *mf* *fingering only*

"Fingering only": no bowing. Play left hand only — as "loud" as possible.

70 **2'49"** **2'52"**

CD

Fl. *gliss. gliss.*  
*cresc. poco a poco*

Ob. *3*  
*6* *5* *3*  
*cresc. poco a poco*

Cl. *5* *6*  
*cresc. poco a poco*

Bsn. *3*  
*cresc. poco a poco*

Tbn. 1

Tbn. 2

Perc. *3*

Pno. *3* *quasi f*

Vln. I *(tr)* *pizz.* *p* *f* *(ord. pizz.)* *mf* *pizz. behind stopped finger*

Vln. II *(pizz.)* *mf*

Vla. *cresc. poco a poco* *Free plucking: both hands on all four strings: quickly & randomly plucking* *back to 2 previous notes*

Vc. *(tr)* *arco* *less arco pressure [poco a poco]* *cresc. poco a poco*

Tempo is *ad libitum* for each player from this point until 3'11". Small notes are always as fast as possible; some of them may indicate specific rhythms to be played as fast as possible. Duration of rests with fermata are to be determined by the player — however they should never be too long.

72 2'55"

CD

Fl. *ad lib.* (\*) Flute player begins a "vocalization" of unintelligible speech, following approximately the directions of played notes (cresc.)

Ob. *ad lib.* (cresc.)

Cl. *ad lib.* (cresc.)

Bsn. *ad lib.* nat. ----- flatt. (cresc.)

Tbn. 1 senza sord. mp cresc. poco a poco

Tbn. 2 mp cresc. poco a poco

Perc. Dampen piano strings with both arms on the cloths. Make alternated movements from completely dampened to almost open strings until the end of this section. Occasionally one hand may be used to hit one or more strings like a drum.

Pno. *mf* cresc. *ped. sempre*

Vln. I ord. pizz behind ord. pizz 3 behind *f* Free plucking & pizzicato like fragments of speech (*forte/piano*)

Vln. II Free plucking & pizzicato like fragments of speech (*forte/piano*)

Vla. Free plucking & pizzicato like fragments of speech (*forte/piano*)

Vc. less arco [*poco a poco*] fingering only *f* fingering only

Free plucking & pizz.: alternate freely between these two techniques. The left hand may be used either for stopping strings (as usual) or to join the right hand in plucking many strings at the same time.







89 **4'32"** **4'38"**

CD

Fl. *sempre legato*  
*ppp*

Ob. *sempre legato*  
*ppp*

Cl. *sempre legato*  
*ppp*

Bsn. *ppp*

Tbn. 1

Tbn. 2

Perc. **snare drum**   
*pp*

Pno. *pp*  
*ped.*

Vln. I

Vln. II

Vla. *sempre legato*  
*pp*

Vc. *sempre legato*  
*pp*

CD

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

*pp*

*p*

94 4'47"

CD

Fl. *cresc. poco a poco*

Ob. *cresc. poco a poco*

Cl. *cresc. poco a poco*

Bsn.

Tbn. 1

Tbn. 2

Perc. *p*

Pno. *mp*

Vln. I

Vln. II

Vla. *cresc. poco a poco*

Vc. *cresc. poco a poco*

Detailed description: This page of a musical score, labeled 'CD' and '25', contains measures 94 and 95. The score is for a full orchestra and includes parts for Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), Trumpet 1 (Tbn. 1), Trumpet 2 (Tbn. 2), Percussion (Perc.), Piano (Pno.), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), and Cello (Vc.). The key signature has one sharp (F#) and the time signature is 4/4. The score is divided into two measures. In measure 94, the Flute, Oboe, and Clarinet play a melodic line with a 'cresc. poco a poco' instruction. The Clarinet part features three triplet markings. The Bassoon, Trumpets, Violins I and II, and Cello are silent. The Percussion part has a single note marked 'p'. The Piano part has a sustained chord marked 'mp'. In measure 95, the Flute, Oboe, and Clarinet continue their melodic line with the 'cresc. poco a poco' instruction. The Bassoon, Trumpets, Violins I and II, and Cello remain silent. The Percussion part has a single note marked 'p'. The Piano part has a sustained chord marked 'mp'. The Viola and Cello parts have a melodic line with a 'cresc. poco a poco' instruction.

CD

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

con sord. (straight)

*gliss.*

*mf*

3

3

3

3

3

3

*mf*

*mf*

*mf*

(h) *mf*

98 4'59"

CD

Fl. (... cresc. ...)

Ob. (... cresc. ...)

Cl. (... cresc. ...)

Bsn.

Tbn. 1

Tbn. 2

Perc. *mf*

Pno. *quasi f*

Vln. I

Vln. II

Vla. (... cresc. ...)

Vc. (... cresc. ...)

Detailed description: This page of a musical score, labeled 'CD' and '27', covers measures 98 to 100. The score is for a full orchestra and piano. The key signature has one sharp (F#) and the time signature is 4/4. The woodwinds (Flute, Oboe, Clarinet) and strings (Viola, Violoncello) are marked with '(... cresc. ...)' indicating a gradual increase in volume. The Clarinet part features triplet and sextuplet markings. The Percussion part has a dynamic marking of *mf*. The Piano part is marked *quasi f*. The Trombones (1 and 2) have rests in the first measure and then play sustained notes. The Violins (I and II) have rests throughout. The Viola and Violoncello play rhythmic patterns.

100 5'05"

5'08"

CD

Fl. *f*

Ob. *f*

Cl. *f* 6

Bsn. *f* flatt. nat.

Tbn. 1 *quasi f*

Tbn. 2 *quasi f*

Perc. *fp*  $\Rightarrow$  *pp*

Pno. *f*

Vln. I *fp* (*p*)

Vln. II *fp* (*p*)

Vla. *f*

Vc. *f*

102 5'11"

5'14"

CD

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

*fp* *pp*

*fp* *(p)* *gliss.* *b*

*fp* *(p)* *fp*

104 5'17"

5'20"

CD

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

bass drum

*f* *mf*

*gliss.*

*fp*

*(p)*

106 5'23"

CD

Fl. *dim.*

Ob. *dim.*

Cl. *dim.*

Bsn. *dim.*

Tbn. 1 *dim.* *p*

Tbn. 2 *dim.* *p*

Perc. *dim.* *p*

Pno.

Vln. I *sul pont.*

Vln. II *sul pont.*

Vla. *dim.*

Vc. *dim.*

108 5'29"

5'35"

CD

Fl. *p*

Ob. *p* *pp*

Cl. *p* *pp*

Bsn. *p* *pp*

Tbn. 1 *pp*

Tbn. 2 *pp*

Perc. *pp*

Pno. *pp*

Vln. I

Vln. II

Vla. *p* *pp* pizz.

Vc. *p*

111 5'38"

5'44"

5'50"

CD

Fl. *molto*

Ob. *molto*

Cl. *molto*  
*ppp*

Bsn. *molto*  
*ppp*

Tbn. 1 *molto*  
*ppp*

Tbn. 2 *molto*  
*ppp*

Perc. [metal beater: make a quick, circular scratch around the cymbal's border] *mp* I.v.  
susp. cymbal  
bass drum *pp*

Pno. *pp*

Vln. I *ppp* niente

Vln. II *ppp* niente

Vla. arco *ppp* niente

Vc. *ppp* niente

("A verdade é que a fábrica de pensamentos é tal qual o ofício do tecelão: em que um passo move milhares de fios, as navetas cruzam de um lado a outro, os fios deslizam sem serem vistos, e mil nós se formam de uma só vez")

♩ = 60-70

117

Fl. *f*

Ob. *f*

Cl. *f*

Bsn. *f*

Tbn. 1 *f* senza sord.

Tbn. 2 *f* senza sord.

Perc.

Pno. *f*

Vln. I *f* pizz.

Vln. II *f* pizz.

Vla. *f* pizz.

Vc. *f* pizz.

3

119

Fl.

Ob.

Cl.

Bsn.

Tbn. 1

Tbn. 2

Perc.

Pno.

Vln. I

Vln. II

Vla.

Vc.

*sul D*

*gliss.*

*arco*

*con legno*

*(pizz.)*

*sul G*

*gliss.*

*con legno*

Detailed description: This page of a musical score covers measures 119 and 120. It features a full orchestral ensemble. The woodwind section (Flute, Oboe, Clarinet, Bassoon) and brass section (Trumpets 1 & 2, Trombones 1 & 2) play complex rhythmic patterns with various articulations and slurs. The Percussion part has a single accent mark in measure 119. The Piano part features a dense texture with rapid sixteenth-note runs in both hands. The string section (Violins I & II, Viola, Violoncello) includes glissando effects, playing on specific strings (sul D and sul G), and using arco and con legno techniques. The score is written in a key with one sharp (F#) and a 7/8 time signature.

121

The musical score consists of ten staves. The woodwind section (Flute, Oboe, Clarinet, Bassoon) and the brass section (Trumpets 1 and 2) play a rhythmic pattern of eighth notes with a crescendo. The Percussion part features a snare drum roll starting in measure 122. The Piano part has a melodic line in the right hand and a bass line in the left hand, with a *mf subito* marking in measure 122. The string section (Violins I and II, Viola, and Violoncello) plays a triplet eighth-note pattern in measure 121, then rests in measure 122, and resumes in measure 123 with *arco* and *p* markings.

Fl. *cresc.*

Ob. *cresc.*

Cl. *cresc.*

Bsn. *cresc.*

Tbn. 1

Tbn. 2

Perc. snare drum *mf*

Pno. *mf subito*

Vln. I

Vln. II *arco*

Vla. *arco p*

Vc. *arco mf*



126

Fl. *fff* *secco!*

Ob. *fff* *secco!*

Cl. *fff* *secco!*

Bsn. *fff* *secco!*

Tbn. 1 *ff* *mf*

Tbn. 2 *ff* *mf*

Perc. *ff* [normal playing — piano keys]

Pno. *ff* [2 octaves above!] *in loco* *fff* *secco!*  
 [1 octave above!] *Ped.*

Vln. I *fff* *secco!*

Vln. II *fff* *secco!*

Vla. *fff* *secco!*

Vc. *fff* *secco!*

FIM