

'New' System: NSF NSF are the initials of the maker of this post-WW2 Dutch system, Nederlandse Seintoestellen Fabriek (Dutch Signal Equipment Factory) of Hilversum, and Jan Ringnalda kindly sent details of a manual, plus notes on the parts which he obtained from an ex-NSF employee. He also sent photos of a set, courtesy its owner, Charles Spierdijk.

Many of the parts have a MECCANO look to them but with a fair number of variations and originals, plus one or two MÄRKLIN-style Brackets. But the hole pitch is 12.5mm rather than 1/2", and the thread is M4.

The PARTS Apart from bare metal parts (Wheels, Gears, brassware, etc) all are painted green except for the 5x9 & 5x11h Flanged Plates, and the Flanged Sector Plate in red. Holes are typically 4.8mm Ø. Except as stated Pulleys & Wheels are aluminium with double-tapped (M4) brass bosses, 4.05mm bore. The Gears are Brass.

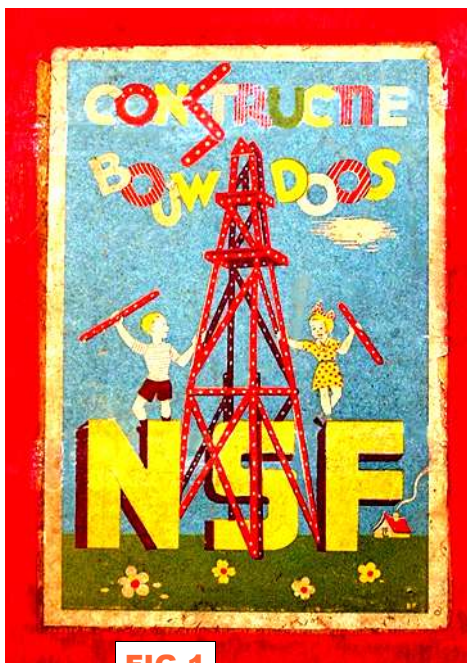


FIG.1

Fig.2 below is taken from the manual and shows the PNs of most

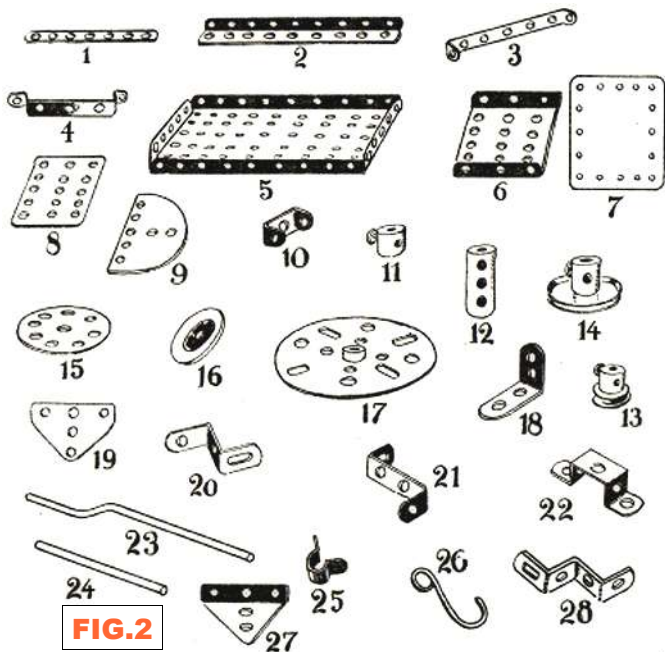


FIG.2

of the types of part – variations in size are usually denoted by a reference to the number of holes after a slash (/), as in the list below (with my names). Daggered parts are shown in Figs.3A-F, 4 & 5, not all exactly to scale, and include some which are differently pierced to those in Fig.2.

The quantities of parts in curly brackets are those specified for the models in the manual. Where a second figure is given it is the number needed for the last 2 models (these, as will appear, were on a loose sheet in the manual and the extra parts could have been added after an upgrade to the set). The quantities of Pulleys are unclear; no Gears are used in any of the models, and no PNs are known for them.

Strips #1/25, 1/19, to 1/3: 25,19,15,11,9,7,6,5,4, 3h {6-8,4-8,4, 4-8,4-8,4,8,8,4,4} The 3h+ is also known in unpainted brass. **Fishplate** #1/2+ {4}. **A/Gs** #2/25, /9+, /6 {4-6,4-6,4-6}. **A/B** #2/1+ {6-10}. **DAS**: #3/3, /5+, /7, /9, /11 (the holes in the base) {2,2,2,2,2}. **3h Double Bent Strip** #4/5, see Fig.2 {2}. **Flanged Plates**: #5/5x9h+, /5x11h {1-2,1-2}. **Flanged Plates**: #6/3x5h+, /5x7h+ {1,1}. **Flanged Sector Plate** #6/3x9+ {0-1}. **Girder Bracket** #6/2x3 [sic] (no slotted holes) {0-1}. **Flexible Plates**, aluminium: #7/3x5+, /3x7, /3x9, /5x5, /5x7, /5x9, /5x11h {2,2,2,2,2,2,2,2}. They are thin enough to be easily

curved. **Perforated Plates**: #8/5x3+, /5x5, /5x9, /5x11, /5x17h {1,2,1-2,1, 1}. **Semi-circular Plate** #9+ {1}. **D/B** #10+ {2}. **Collar** #11+ {2}. **Coupling** #12+ {1-2}. **Pulleys, Loose**: #13: 13+ & 25mm+ Ø; 24mm Ø, nickelled+. **Pulleys, Fast**: #13: 16+, 25+, & 62mm+ Ø (the 16mm has an integral boss, and there is also a version made of copper+). **Wheels** #14: 34+ & 62mm+ Ø, no boss {4-6, 0?}; 62mm Ø with boss+ {4}. The Wheels are thick discs like the Pulleys, but with rounded edges. **Wheel Disc** #15. **Wheel with Rubber Ring** #16 {4}. A whitish Rubber Ring can be seen in the top left compartment of Fig.6; it fits the 25mm Pulley and light brown examples are also known. The black Rings next to the white one in Fig.6 are smaller and they are thought not to be NSF. **Face Plate** with, without+ boss #17 {1,1}. **A/B**: #18/1, /2: 1x2+ & 2x2h+ {2,2}. **Flat Trunnion** #19+ {4-6}. **Rev.A/B**: #20, 2-hole #21+ {2,2}. **Double Bent Strip** #22+ {2-4}. In the manual it is sometimes called #4/3. **Crank Handle** #23 {1}. It has 90° bends and scales at about 11cm o/a. **Axle Rods**, 3.95mm Ø with square ends: #24/2.5, /4, /8,

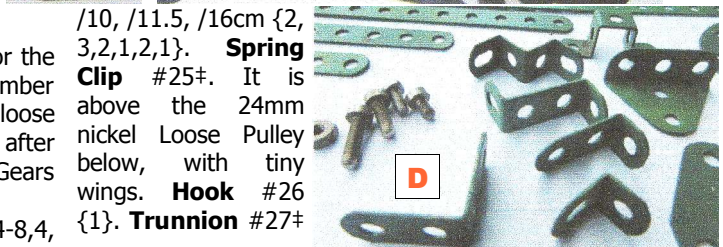
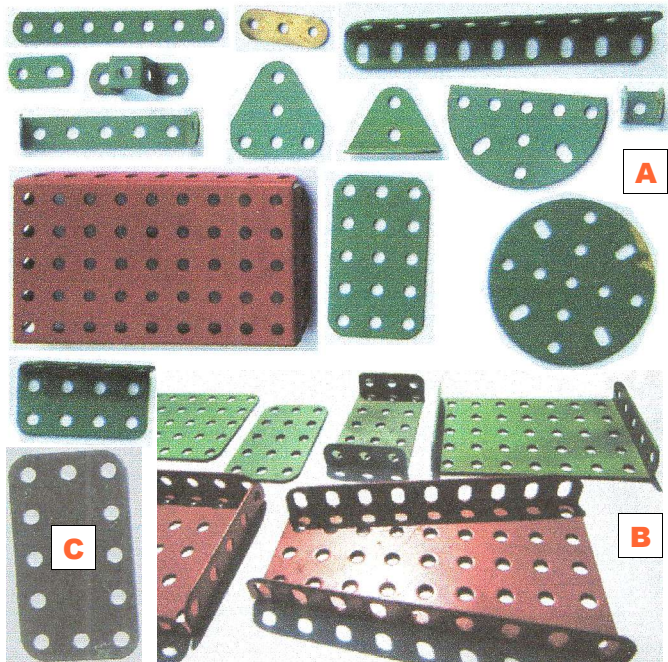


FIG.3

{4-6}. **Double Rev. A/B #28** {2}. **N&B**, no PN's. The hex Nut & 4 lengths of cheese-headed Bolts can be seen in Fig.3D. **Tools:** Screwdriver \ddagger and Spanner \ddagger . **Gears:** 50 \ddagger , 38 \ddagger , & 25 \ddagger . With the 25 & 50t meshing at 2h centres the Mod. would be 0.67, or a DP of 38, the nominal MECCANO value. **Worm \ddagger** .

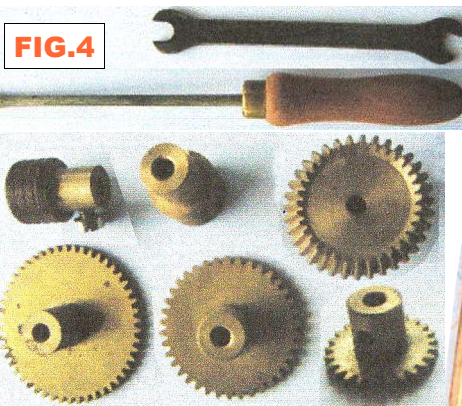


FIG.4



FIG.6

The SET Charles' box (Fig.6) is wooden and it measures 270*60*85mm, including the 30mm deep lid. The outside is red and the label (Fig.1) is approximately 21x15cm.

There is no indication as to whether there were other sets. However a set seen on Marktplaats was also in a wooden box but longer and narrower with 7 compartments. It had no lid so may be suspect, though it did have a manual with it. Most of the types of part in Charles' box could be seen in it, though not perhaps so many of them.

The MANUAL About A5 in size, in portrait format, with spiral binding, the cover is identical to the lid label. Inside are 20 pages, numbered after the first one. However pp17-20 are

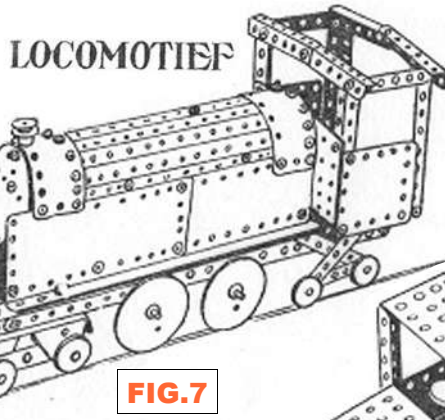


FIG.7

simply a folded A4 sheet, not bound in any way.

p1 has an Introduction, and p2 the Illustrated Parts. pp3-16 have 14 models from MOLEN met draaibaar bovenstuk (Windmill with revolving head) to HUSKRAAN zwenkbaar (Swivelling Crane). There are 2 models on the loose pages: ZWENKBARE KRAAN (Slewing Crane), and TRANSPORTBAAN (Aerial Ropeway, Fig.9).

The models include 5 Cranes, 3 Lorries, 3 Aircraft, the Radio Mast on the label, a Loco (Fig.7) and a Lifting Bridge. There is a single line drawing for each plus a parts list, some building instructions, an additional view for the Lorry in Fig.8, and some sketches of details for the last two. With limited fuselage & wing plating the Aircraft look rather skeletal; the other models look quite reasonable though the only apparent mechanical feature of note is the steering fitted to the Lorry in Fig.8.

The full instructions are shown in Fig.9 but only the drawings for the other models. All the drawings are the original size but the text is reduced to 60%.

REMARKS NSF was certainly produced after WW2 and so

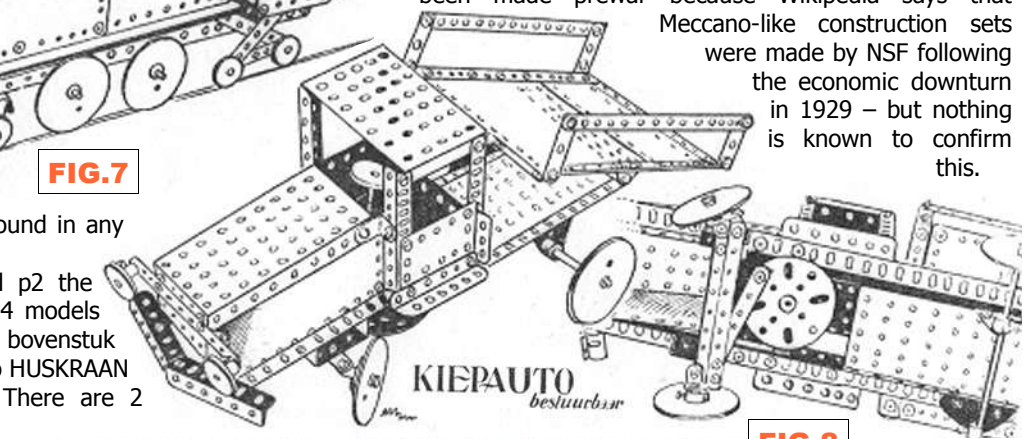


FIG.8

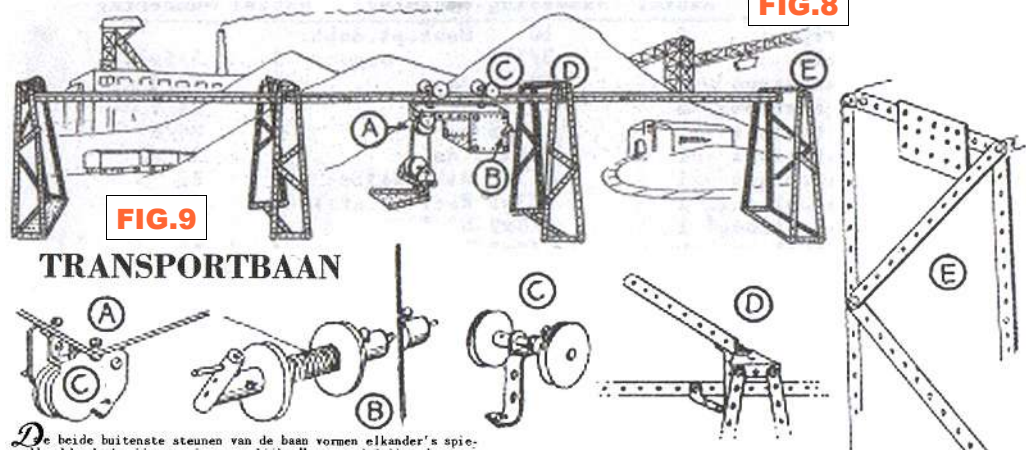


FIG.9

De beide buitenste steunen van de baan vormen elkander's spiegelbeeld, doch zijn overigens gelijk. Hun grondvlakken bestaan uit de dubbel omgezette montageplaat 5/5 x 11, verticaal daarop komen de rechte strippen 1/25 en de strippen 1/19 verlengd met 1/9. Voor dwarsversteving gebruikt men 2 strippen 1/15. Bovenaan verbindt men de beide zijden door hoekbalk 2/9, verlengd met hoekbalk 2/6.

De beide middelste steunen zijn eveneens aan elkaar gelijk. Het grondvlak bestaat uit twee hoekbalken 2/6, verbonden door een strip 3/11.

Verticaal worden weer rechte strippen 1/25 en 1/19 gebruikt, verlengd met 1/9. Bovenaan zijn zij verbonden door de omgezette montageplaat 27 en de hoekbalk 2/9.

Aan de bovenste verbindingshoekbalken komt de looprail te hangen. Deze bestaat uit de hoekbalken 2/25. Er moet op worden gelot dat de wielen van de loopkat onder de looprail door kunnen rollen en dat er ruimte blijft tussen de wielen en de hangers van de rail. De bovenzijde van de loopkat bestaat uit een montage plaat 8/5 x 11, de zijden uit de beschermplaten 7/5 x 7, de bodem uit de montageplaat 8/5 x 5.

Aan de voorkant bevindt zich de vaste as van de takel, opgehangen aan lagersteunen.

Het wagentje wordt samengesteld uit de omgezette montage plaat 6/3 x 9 (conisch), terwijl hierboven, op een paar strippen 3/5, zich de losse as van de takel bevindt.

BENODIGDE ONDERDELEN					
Benaming	Aantal	Nummering	Benaming	Aantal	Nummering
Hoekbalk	6	2/25	Rechte strip	6	1/6
Hoekbalk	6	2/9	Rechte strip	2	1/2
Hoekbalk	6	2/6	Rechte strip	1	1/3
Hoekbalk	10	2/1	Strip	2	20
Rechte strip	8	1/25	Strip	2	21
Rechte strip	8	1/19	Strip	2	18
Rechte strip	4	1/15	Strip	2	4
Rechte strip	8	1/9	Strip	4	22
Rechte strip	4	1/7	Strip	2	3/5
Benaming	Aantal	Nummering	Benaming	Aantal	Nummering
Strip	2	10	Mont. pl. dubb.		
Strip	2	3/11	ong.	2	5/5x11
Lagersteun	6	19	As	3	24/4
Lagerst.ong.	6	27	As	1	24/2,5
Mont.plaat	1	8/5x5	As	1	24/8
Mont.plaat	1	8/5x11	As	1	24/2
Mont.plaat	1	6/3x5	Askoppelbus	2	12
Mont.pl.ong.	1	6/3x5	Wiel (klein)	6	14
Mont.pl.ong.	1	6/3x9	Stelling	1	11
Mont.pl.ong.	1	6/2x3	Wiel	4	16
Snaarschijf	1	16			