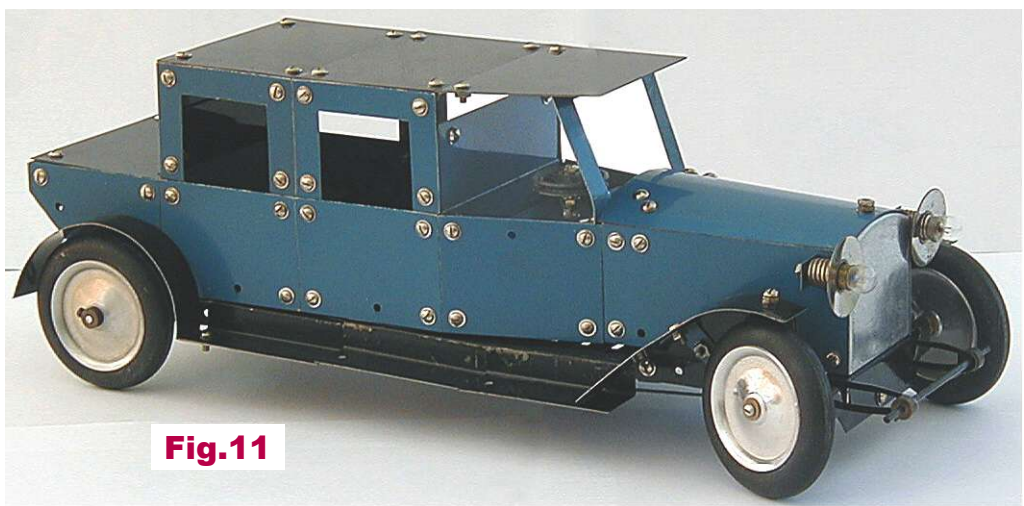


Chassis Sides and the small, strange shaped, spike-ended pieces near the top.

The building instructions include 10 diagrams and 4 are shown in Figs.9 and 10 (the wording in the Dutch manual is again in German). To start with, 2 chassis side members are made by joining a pair of Chassis Side Members, #C R, for each side, overlapped to give the correct length, as given on p3 – from 27cm for the 2-Seater to 48cm for the Large Bus. Then these are joined by the Front Axle plus the Floor parts, and the back wheels added. The back wheels are simply the Tyre with a rear Wheel Disc on either side, squeezed together by a Collar on either side. The front wheel assembly is shown in Fig.10. It appears that there is narrow Nut on the end of the Bush #Bu, and one would be essential to allow the Discs to grip the Tyre and allow the whole assembly to rotate on the Bolt #Al. There seems no reason for the left Nut #Ak unless it simply acts as a spacer. Although the Steering Arm and front wheels could pivot on the Front Axle, the king pin Bolt has only one Nut on it and so presumably it is intended that the wheels are locked in position. And indeed there is no indication that the Steering Wheel/Column is anything other than decorative. The body is built up from butted Panels joined by the Flat & Angle Brackets. It is attached to the chassis by 2 A/Bs towards the rear and by bolting the bottom of the Radiator to the Front Axle.

**A MODEL** Above right the model I built, the one on the manual cover, some 38cm long. The actual blue is again a little darker than in the photo and the roof is black like the wings & chassis. Building it took quite a long time because the butt-jointed parts require careful assembly and numerous Brackets are needed – including virtually all of the 50 Angle Brackets available.

The chassis was generally straightforward except for two



**Fig.11**

major problems. First, the holes at the ends of the Track Rod #V k were 4mm too far apart, and secondly, the Bushes #Bu, 12mm u/h, were too short by about 4mm. In both cases substitute parts had to be made, and also Nuts to fit the new Bushes.

It was best to make the body separately, without the roof, and then attach it to the chassis, with the roof added last. The Body Panels were accurately made and mostly fitted together surprisingly well. Care though had to be taken where, as was often the case, two Brackets had to be overlaid – their order had to be correct if a neat job was to result. Even so the holes in a few Brackets had to be elongated, as did the holes for mounting the Windscreen.

Given that the Steering Arms could be made to pivot it seemed a pity not to have working steering. This was achieved by substituting a suitable length of Screwed Rod for the Steering Column so that a substitute Steering Wheel could be nipped to it. Then a length of cord was wrapped several times around its lower end, with the ends of the cord attached to the Steering Arms after passing around a vertical Long Bolt situated just behind the centre of the Track Rod. The actual Steering Column was used a badge bar at the front of the Chassis Side members.

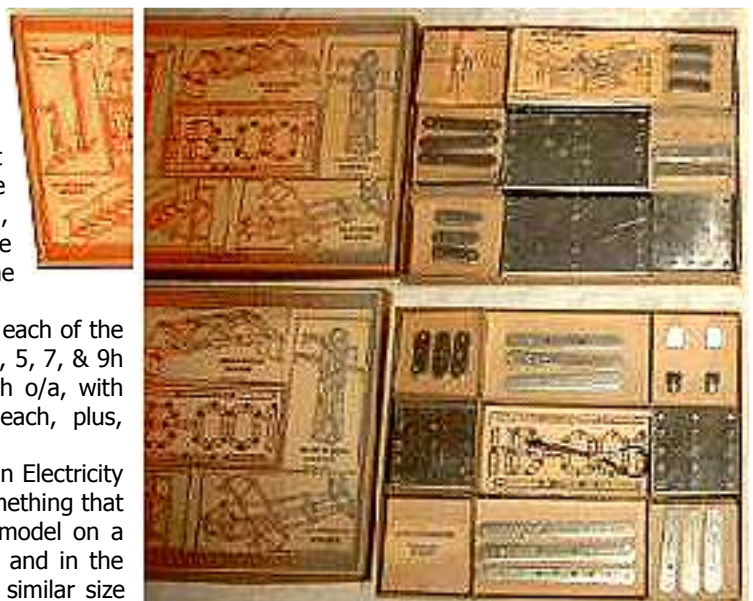
## AUTO-CONSTRUCTOR: S4

OSN 40/1218

**Snippet. 'New' System: BREMEN** 4 sets, described as 'HB-Spielzeug Bremen 001', were offered on Ebay, with a blurry photo showing the open boxes and part of the lids. Two of the Sets are shown right with the left side of the lid taken from one of the Sets not shown. The lids look to be identical and HB-001 can just be seen in the centre panel (and more clearly in the centre compartment of the lower box), but not 'Bremen', and possibly it is part of the maker's name or address. The contents of each Set differed and had no doubt become muddled at some earlier stage.

The parts were said to be aluminium and examples of each of the main ones can be seen in the two sets right. They are: 3, 5, 7, & 9h Strips; Plates, perhaps flanged on 2 sides, 5\*5 & 5\*11h o/a, with only the outer holes and the centre 5-hole row in each, plus, probably, 3 & 5h long DAS, and an A/B.

The 5 models on the lid are an Aeroplane, a Bridge, an Electricity Pylon, what might be a Street Lighting Standard, and something that looks like a Flight of Steps. There is probably another model on a panel or model sheet in the top of the upper set right, and in the centre compartment of one of the Sets not shown is a similar size 'sheet' with the Aeroplane on it. No Wheels were among the parts but the models are too indistinct to say for sure that none are used in any of them.



**BREMEN: S1**

OSN 40/1218



**Snippet. 'New' German System: HB** Photos of the lid, open box, & model sheets were included in an Ebay lot, but with no indication of date, dimensions, etc. The system's name, followed by what is probably a set number, comes from the centre panel of the lid (right). The presumed maker's name, HB-SPIELZEUG-BREMEN, is in each of the 6 lid panels. The models in the panels are each numbered HB 001 followed by the model number, V001 (for the centre panel) to V006.

The types of part that can be seen in the box (Fig.2) are 2 Flanged Plates, 5h wide with a full set of 5 & 9 holes in their flanges (they can't really be seen in Fig.2 as printed); 3,5,7,9h Strips; A/Bs with 2 round holes; a Screwdriver; roundheaded Bolts & hexagonal Nuts. 10 parts in all. The small box is labelled as containing 50 Bolts & 50 Nuts.

There is a model sheet for each of the 6 models on the lid, identical, except all are printed in blue, and in landscape of portrait format as appropriate. One is shown below.

No types of part are used in the models beyond those in the box except that what looks like a 2h Strip in the sloping handrails of the model below. But this may have been shown in error because the two 9h Strips in each rail overlap by 2 holes and a 2h Strip wouldn't be needed. Also it is not entirely clear if the treads are made of DAS, or Strips & A/Bs, but some are shown as the latter and the model could be made within the 50 N&B if they all were.

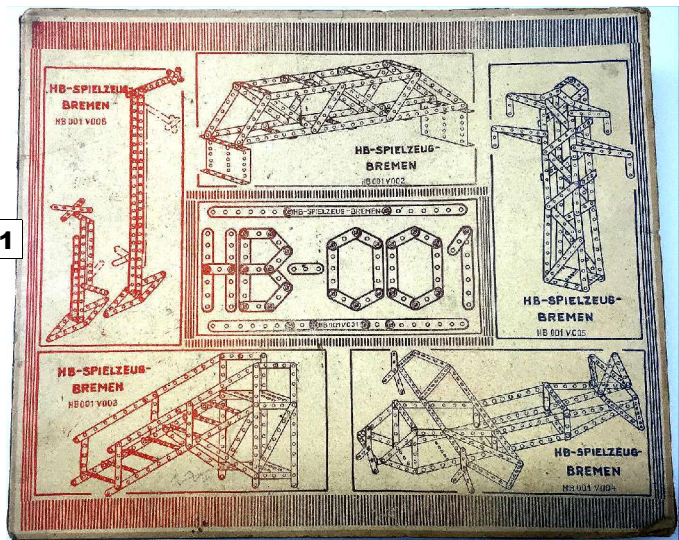


Fig.1

Fig.2

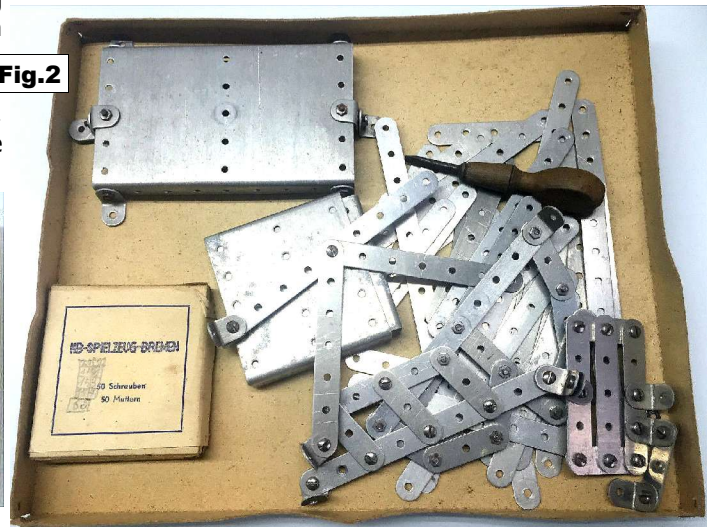
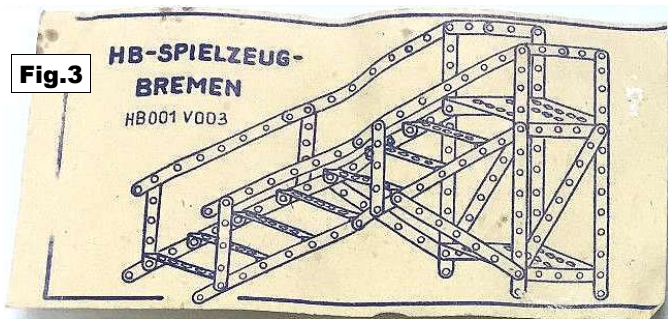


Fig.3

HB-SPIELZEUG-BREMEN  
HB 001 V003



OSN 52/1609

HB: S1

### Snippet. 'New' System: TECHNIKUM

The set to be described was seen on German Ebay. Nothing was said of its date or maker. Technikum means technical college in German, but the alternative names on the lid label, Der Junge Wagenbauer and The Young Carriage-BUILDER are perhaps more appropriate. Down the right side is 'Made in Germany' and 'Nachahmung Verboten' [Imitation Forbidden]. The black strip is probably from a labelling machine with the owners name on it, the old way with the surname first, HENGST most likely.

The 'lid' (Fig.1) is a Flanged Plate (one flange can be seen in Fig.2) with a label stuck on it, and it would fit over the top on the 'box' in Fig.2. The set was said to measure 17\*8\*5cm and scaling gives holes of 4¾mm at 12mm pitch. The base of the 'box' is a similar Flanged Plate, and it, & the 'box' side Plates, can be seen in the models on the label below. Other parts in the box which are used in these models are a 'U' Girder, one of 2 used in the towing arm, & at least 1 disc Wheel. Probable parts are 2 Axles with screwed ends, & at least one of the DAS in which the would Axles run. Of the doubtful parts there are a TRIX-like DAS & 8h Wheel Disc, and the Strips & 3\*7h Plate which look to have a smaller hole pitch than the parts used in

Fig.1



Fig.2



the models. All that can be said of the N&B is that in a photo not shown here 2 of the side Plates are fastened to the base Flanged Plate by 2 Bolts from the inside, one held by a hexagonal nut & one by a

wing nut.

Was the set sold packed more or less as in the photos? If so a novel form of packaging but eye catching and practical enough with the 'lid' lifting off just as an ordinary cardboard lid would do.

Fig.3

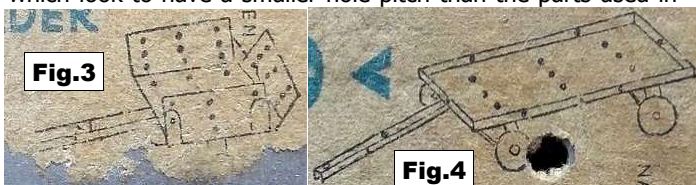


Fig.4

OSN 52/1609

TECHNIKUM: S1