



'Lagercrantz 1'

Country of origin:
Sweden

Associated power supply unit for AC mains and 6V DC. When not in use it was stored in the top compartment of the suitcase.



Johan Lagercrantz logo

'Lagercrantz 1' in a suitcase: the receiver below, the transmitter section above and power supply on top.

DATA SUMMARY

Design/Manufacturer: Johan Lagercrantz, Sweden.

Year of manufacture: 1944 (Not yet confirmed).

Use: (SIS) agents.

Transmitter:

Circuit features: Crystal oscillator, RF output stage. CW only.

Frequency coverage: Unknown

Valves: 6V6 crystal oscillator/driver, 807 RF output.

RF output: 25W.

Receiver:

Circuit features: Superheterodyne; RF stage, mixer/local oscillator, IF stage, Det/AF stage, BFO, AF output. AM R/T and CW.

Frequency coverage: Unknown.

Valves: 6SK7, 6K8, 6K7, 6SQ7, 6J5 and 6C5.

Power Supply: 230V AC; 6V vibrator power supply.

Rectifier valves: 2x 6X5.

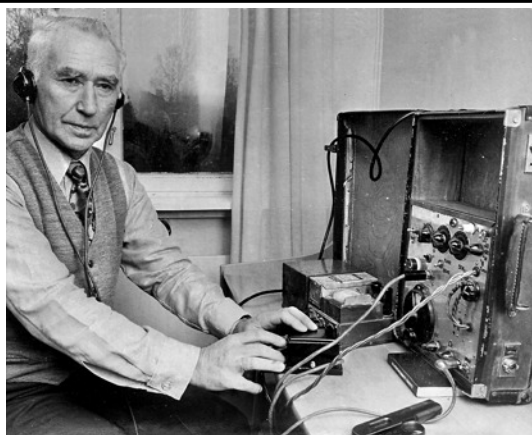
Size (cm): height length width
Set in suitcase 14 29 42 (An estimate).

Accessories: Morse key, headphones, spare valves, aerial wire and insulators, connectors.

Remarks

This suitcase set was one of the first produced by Lagercrantz in Sweden for illegal use. For that reason, it was named 'Lagercrantz 1'. Agents in Norway referred to it as the 'Swedish set'. So far, only one of this type has been found which was used at station 'MU'. The set comprised three main units: A superheterodyne receiver with BFO, a crystal controlled transmitter, both fitted in a suitcase. The AC Mains-6V DC power unit was carried in the top compartment of the suitcase.

Johan Lagercrantz was born on 24 February 1908 in Djursholm, Sweden. He developed an early interest in radio and radio technology. As early as 1923, at just 15 years old, he obtained an amateur certificate with the call sign SMSV, which later became SM5SV. In 1938, he started his own radio business in Stockholm, primarily importing equipment and measuring instruments for radio amateurs. He was an agent for companies such as Hammarlund, Hallicrafters, Radio Corp. of America, and National Company. Among other ventures, he began producing illegal radio equipment that was sent to Denmark and Norway. Lagercrantz had a good sense of humour and was dynamic, always well-dressed and a true gentleman. It is known that during the war, his company produced three types of HF radio stations and one type of VHF transmitter. The exact number of units produced is unknown, but there were probably not many, as only a few examples still exist. After the war, the company produced radio equipment for the Swedish military, including the Type MR 30, which resembled an agent set he had manufactured during the war. He tragically died in a car accident in 1956 at just 48 years old.



Hans M. Hansen and his 'Lagercrantz 1' suitcase set.



Johan Lagercrantz (1947).

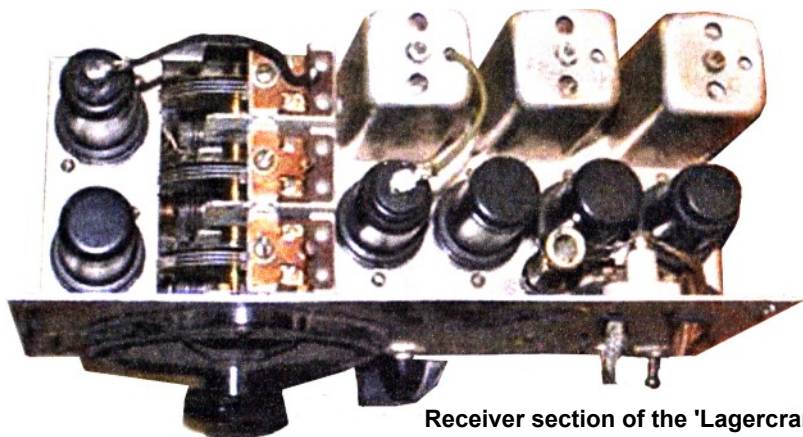
Ledande amerikansk radioindustri

- American Phenolic Corp.:* AN-och koaxialkontakter, rörhållare mikrofonkontakter, högfrekv. kabel, polystyren i plattor, bult och rör.
- Allen B. DuMont Labs.:* Katodströmsoscilloskop och katodstrålerör.
- General Radio Company:* Laboratorieinstrument för industri och vetenskap.
- Hammarlund Mfg. Co.:* Trafikmottagare och var. kond. för sändare och mottagare.
- Hallicrafters Inc.:* Amatörmottagare.
- Link Radio Corporation:* Frekvensmodulerade sändare och mottagare.
- National Company, Inc.:* Trafikmottagare och kortvägdestaljer.
- Radio Corp. of Amerika:* Sändare-, mottagare- och likriktar-rör.
- United Transformer Corp.:* Transformatorer av alla slag.

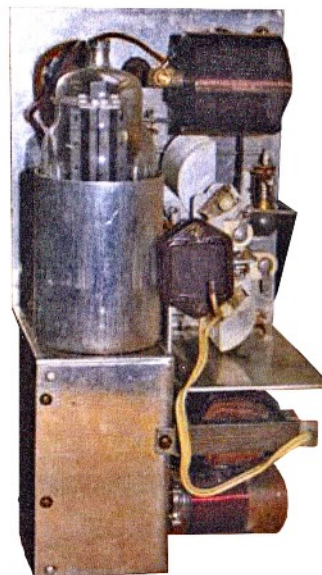
Representant i Sverige av:

JOHAN LAGERCRANTZ

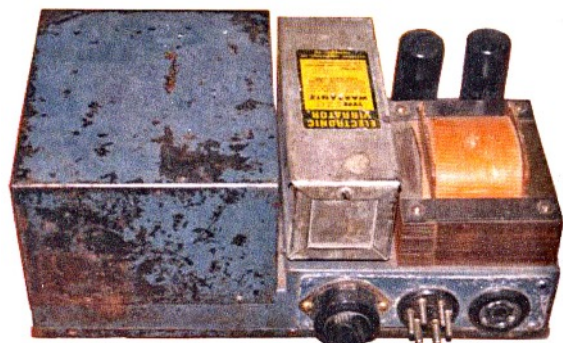
Värstavägen 57, Stockholm
Kontor: 41 33 00, 41 71 28
Lager: 41 00 91
Tekn. upplysning: 41 94 61



Receiver section of the 'Lagercrantz 1'.



'Lagercrantz 1' transmitter section.



AC mains and 6V DC power unit of 'Lagercrantz 1'.

References

- Radio under og etter okkupasjonen, Erling Langemyr LA3BI, Dec. 2019. Published by the Norsk Radiohistorisk Forening.
- Most photographs came from Erling Langemyr, LA3BI.

Other clandestine sets made by Johan Lagercrantz.

Type 'VHF sett' (right). (See also WftW Supplement 246).



'Tx/Rx 20W' version 1.

It is believed that the Swedish '20w Tp' was developed after the Tx/Rx 20W.



'Tx/Rx 20W' version 2 (right).



'Apparat 7/11' (above).



These sets have been described in more detail in WftW Volume 4.



The post-war Swedish Army '20w Tp' suitcase set was also produced by Johan Lagercrantz under the production name Type MR-30. Apart from these two (unfortunately low resolution) photographs, no further information has been found to date.

