

People and things

dicted in 1956 by Glauber and Martin which boosts the bremsstrahlung near to atomic X-rays.

The best candidates are platinum-193, holmium-163 and terbium-157, while a search could also be made for other suitable, and as yet undiscovered, electron capture processes. Such experiments are in principle straightforward, using conventional electron and photon spectrometers and coincidence techniques to measure the radiation spectrum to a specific final atomic state. However a good deal of preparatory work is required at ISOLDE to perfect the production of the necessary initial samples and techniques required to furnish the required beams.

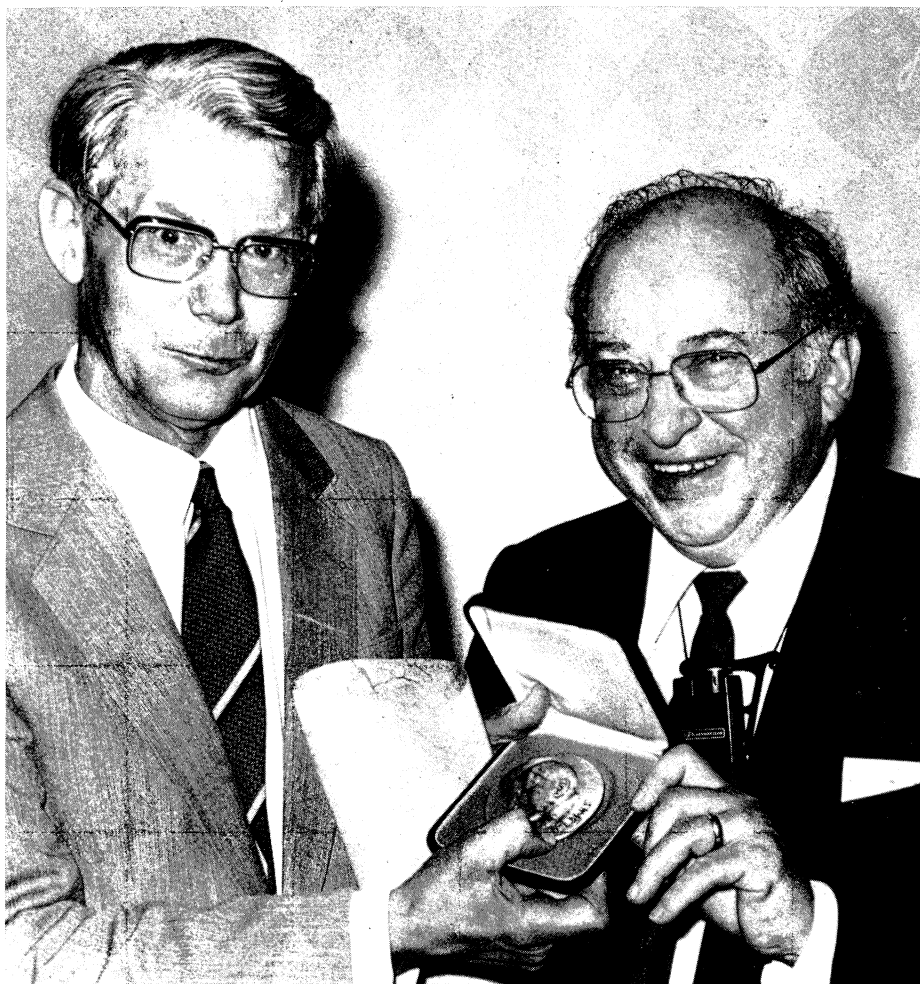
Work is beginning straight away to develop these techniques and to measure some new nuclear parameters. Once this has been achieved, several experiments could be run in parallel in the attempt to provide a precision result on the neutrino mass.

On people

The Max Planck Medal – the highest distinction of the German Physical Society – has been awarded this year to Kurt Symanzik of the University of Hamburg and, since 1968, a senior staff member at DESY. The first medals were given to each other by Max Planck and Albert Einstein in 1929, and the award is made to theoreticians continuing in the tradition of Planck.

Kurt Symanzik obtained his doctorate under Werner Heisenberg in Göttingen. As well Hamburg and DESY, he has worked at several important research centres in Europe and in the USA, including the

Courant Institute of the University of New York. His scientific work has had a direct bearing on quantum chromodynamics, the (so far) successful candidate theory of inter-quark forces. Symanzik pointed out the possibility of the existence of so-called 'asymptotically-free' theories, now an integral part of quantum chromodynamics dogma. His work in the sixties on the relation between field theory and statistical mechanics is of great importance in present attempts to explain the absence of isolated quarks. Also playing an important role in modern field theory is the Callan-Symanzik equation, developed independently by Symanzik and by Curtis Callan.

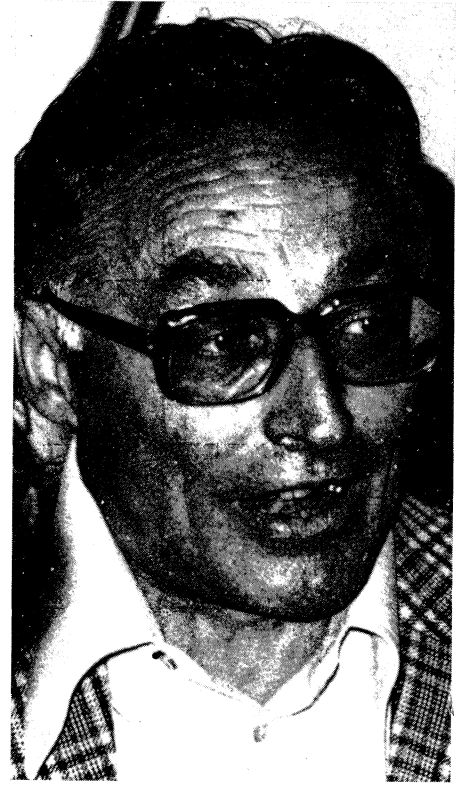


Kurt Symanzik (left) receiving the Max Planck Medal from Horst Rollnick, President of the German Physical Society.

(Photo Deutsche Presse-Agentur)



Yurii Borisovich Rumer



Hans Willax

an intense spallation neutron source (being concerned with a novel type of accumulator ring at Jülich). Hans Willax was highly regarded for his expertise in the field of accelerators, for the originality of his thinking and for his energy and enthusiasm. His great achievements stand as a lasting tribute at the SIN Laboratory.

Big projects in Federal Republic of Germany

Yurii Borisovich (Georg) Rumer, the oldest scientist at the Novosibirsk Institute for Nuclear Physics, celebrated his eightieth birthday on 28 April. His scientific interests have been mainly concentrated on the general theory of relativity and quantum chemistry. His early work on quantum chemistry (particularly in collaboration with E. Teller and G. Weihl) were pioneering and helped form this field of science. In addition to his scientific achievements, his talents and profound knowledge have been evident in lectures on all fields of theoretical physics which during half a century have helped produce several generations of noted scientists.

Hans Willax

Hans Willax, who headed the building of the ring cyclotron at SIN, the Schweizerisches Institut für Nuklearforschung, died on 17 April after a severe illness courageously borne. He joined SIN in 1959 and developed the concept of the ring cyclotron to achieve the high proton beam intensities necessary for the new generation of meson factories. He was Head of the Accelerator Department from 1974 and spent the past two years working with the Study Group set up in the Federal Republic of Germany to develop

Recommendations have been made by a Committee set up by the Federal Government, under the Chairmanship of K. Pinkau, to study the various large projects in fundamental research in which Germany is involved, including those in the high energy physics and accelerator sectors.

The Committee recommended the CERN electron-positron storage ring project, LEP, for approval in June 1981 and execution as planned, expressing the hope that the project would go ahead following a positive decision from the other CERN Member States.

The Committee recommended, in principle, the DESY electron-proton colliding beam project, HERA (see May 1980 issue, page 99), but did not encourage construction to start before 1984 although preliminary studies and planning should begin. It was emphasized that HERA should be an electron-proton collision machine – the electron-positron option should not be pursued. The desirability of having a second thriving international high energy physics Laboratory in Europe in addition to CERN was recognized, and the Committee urged international participation not only in its use but also in its construction by any means (financial, personnel or equipment) to ease the burden on the Federal Republic. The proposal to delay

authorization for several years is made in the light of the exploitation and upgrading of the PETRA storage ring at DESY and of the further time which will be needed to pursue the development of superconducting magnets.

The Committee also recommended in principle the construction of an intense neutron source as proposed by the Karlsruhe/Jülich collaboration (the SNQ – Spallations-Neutronenquelle – project, see October 1980 issue, page 299). Again a delay of several years prior to authorization was recommended to allow for further studies and to benefit from experience gained in the construction of British and Swiss spallation sources. The project is also under examination by another Committee.

The rapid development of the SuSe superconducting heavy ion cyclotron, proposed by Munich, was recommended by the Committee in line with the Lindenberger report, with the proviso that certain conditions are met and use of the facility by outside groups could be guaranteed. SuSe is a four sector cyclotron designed to accelerate medium-heavy ions to 300 MeV per nucleon (up to sulphur ions) and heavier ions up to 25 MeV per nucleon.

The Committee did not recommend the construction of the superconducting cyclotron proposed by

On 30 April a ceremony was held at CERN in memory of Wolfgang Gentner, the scientist from the Federal Republic of Germany who played an important role in the development of CERN. In the front row of the photograph, left to right, are DESY Laboratory Director V. Soergel, Mrs. Gentner, President of CERN Council J. Teillac, and Ms. H. Langevin-Joliot who spoke at the ceremony.

(Photo CERN 204.5.81)

Jülich, was hesitant about the urgency of the European Synchrotron Radiation Facility (with HASYLAB at DESY and BESSY in Berlin coming into action) and felt that it was too early to pronounce on the relativistic heavy ion proposal from Darmstadt (see October 1980 issue, page 298). In view of the internationally recognized importance of this project, it is suggested that some preliminary experiments at CERN would be helpful to enable a special committee to arrive at an early decision.

HERA workshop

In view of the HERA electron-proton project, a workshop on physics with electron-proton facilities is being



organized on 2-3 October. Further information from Peter Von Handel, DESY, Notkestrasse 85, D2000 Hamburg 52, Federal Republic of Germany.

Conference

The Ninth International Conference on Atomic Collisions in Solids will

be held at the Université Claude Bernard Lyon-I, from 6-10 July. Further information from Institut de Physique Nucléaire, Université Claude Bernard Lyon-I, 43 boulevard du 11 Novembre 1918, 69622 Villeurbanne-Cedex, France.

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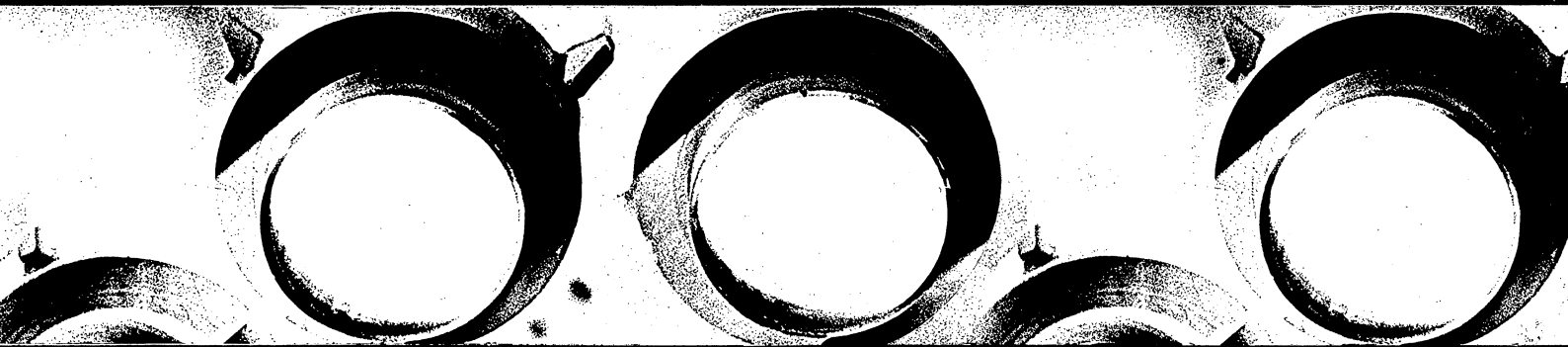
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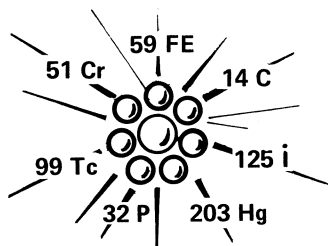
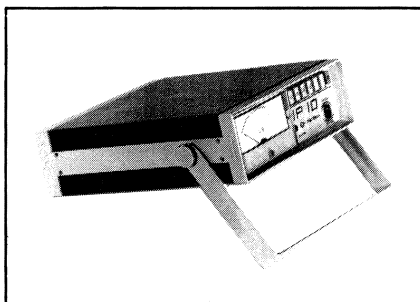
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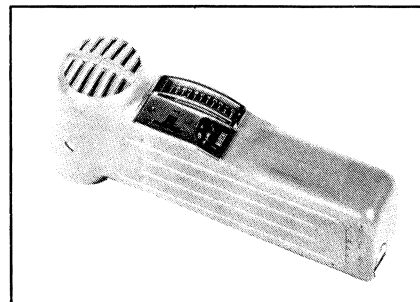
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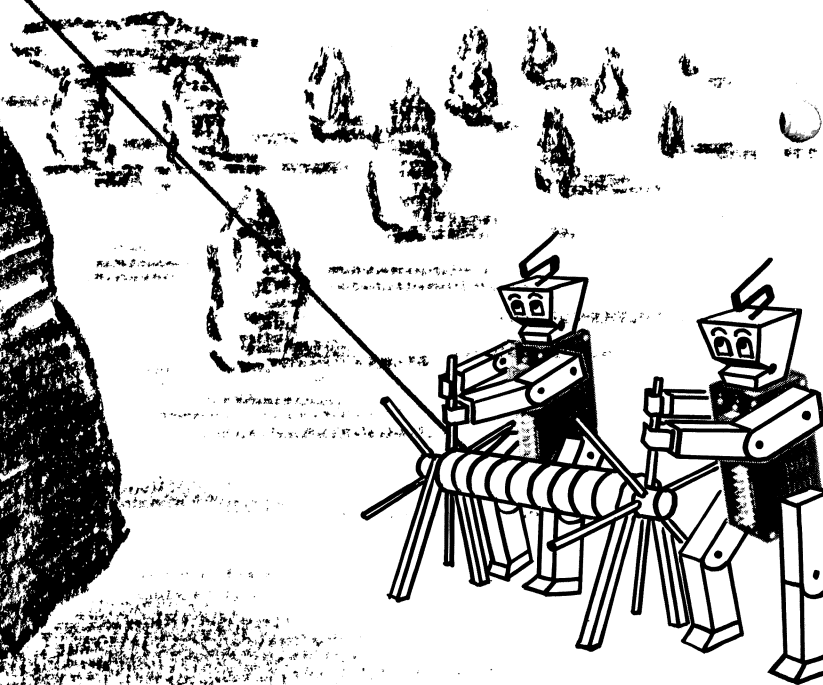
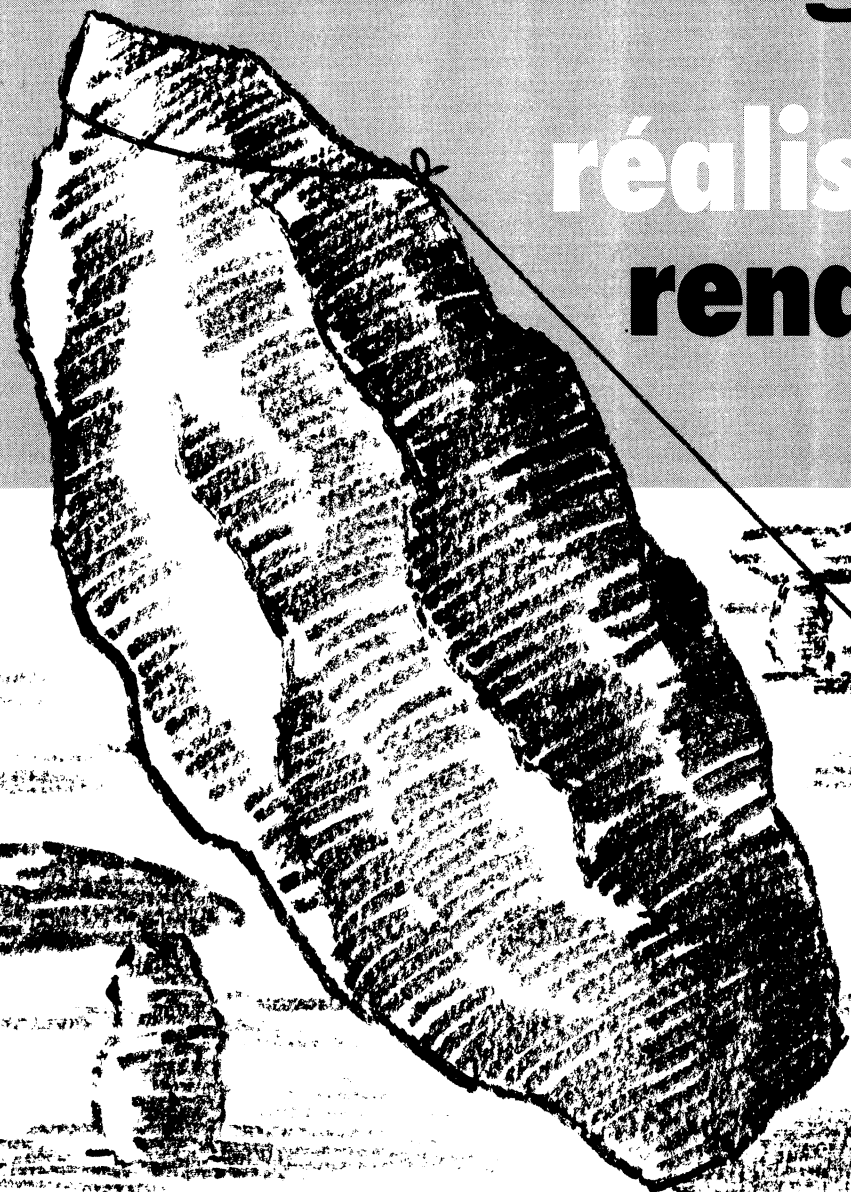


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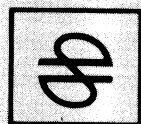


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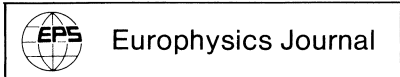
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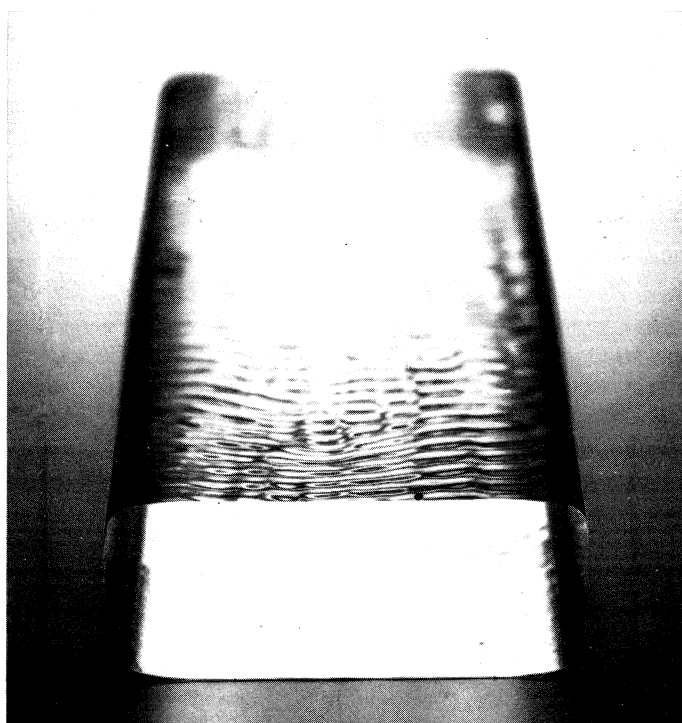
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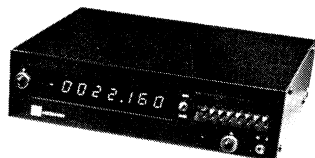
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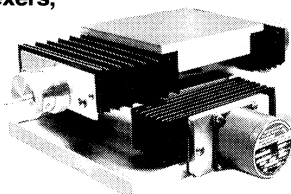
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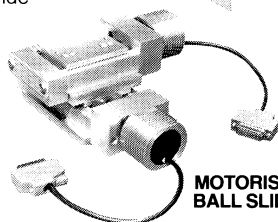
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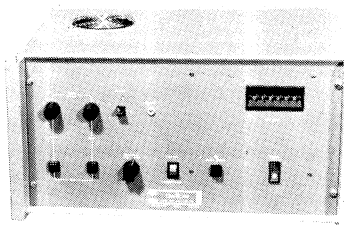
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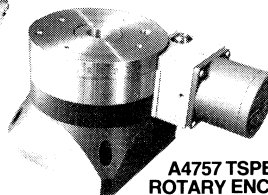


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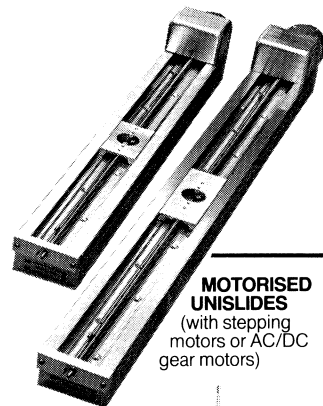


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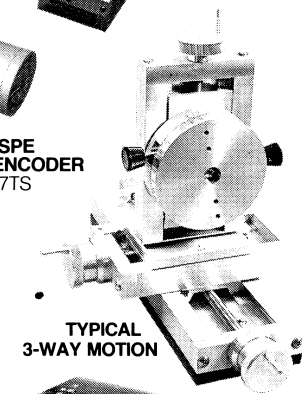
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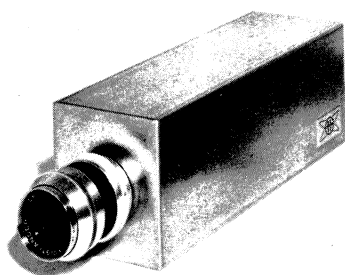
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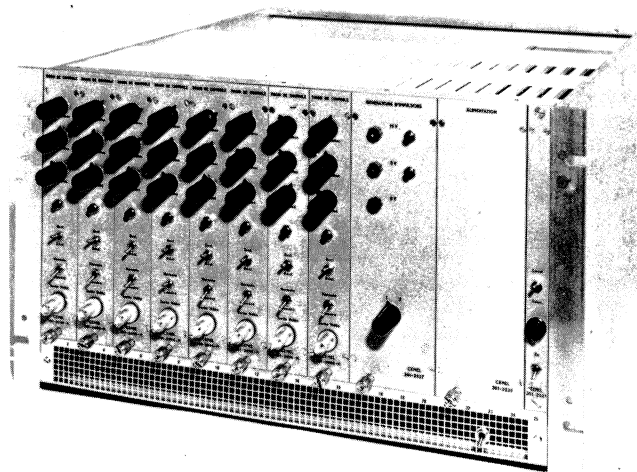
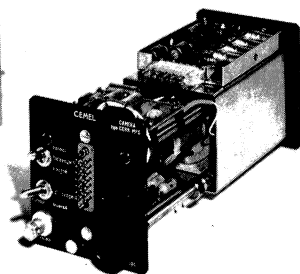
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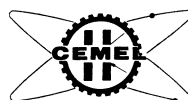
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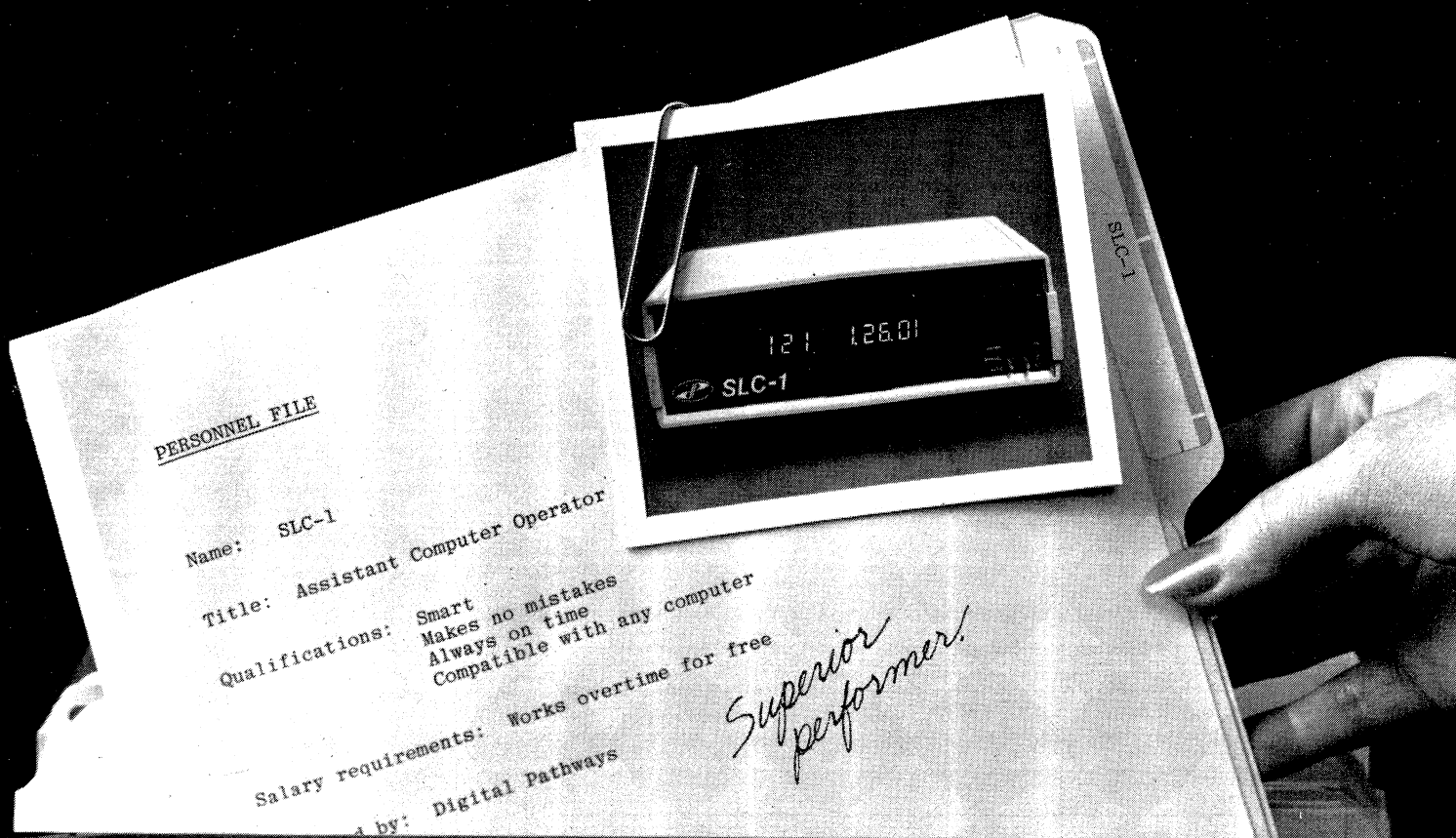
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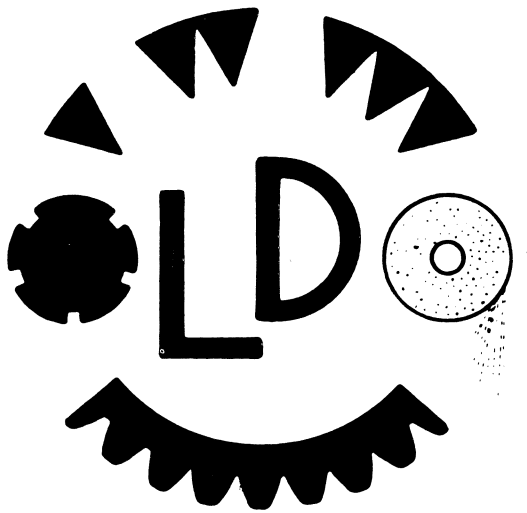
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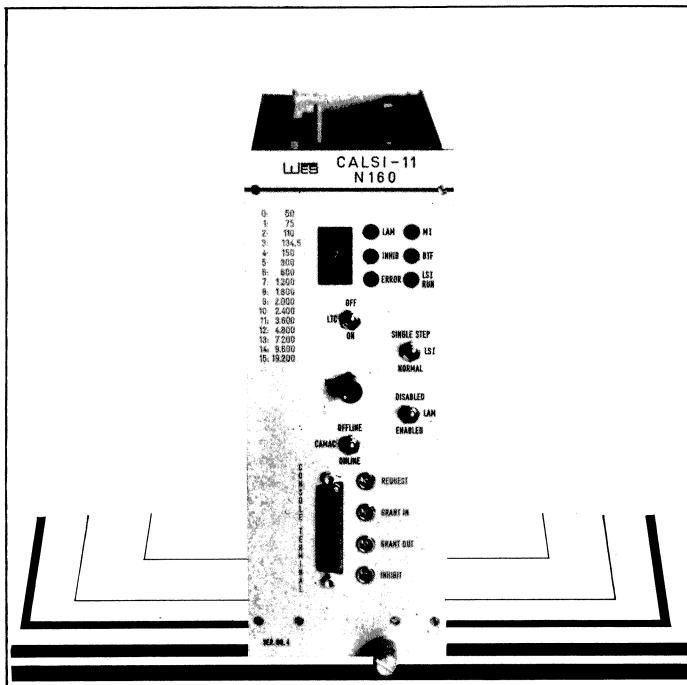
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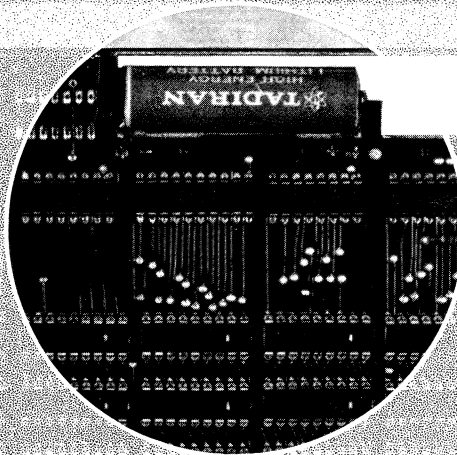
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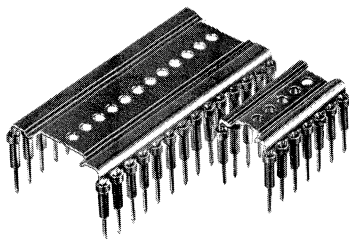
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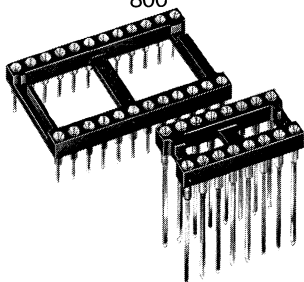
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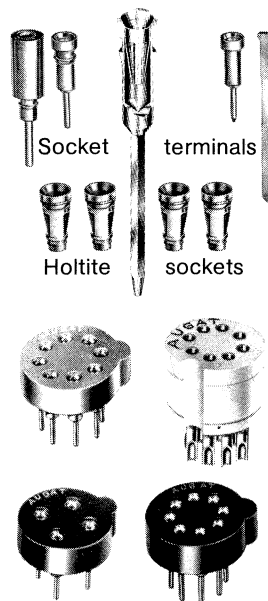
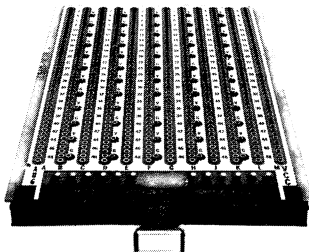
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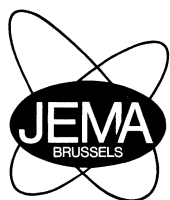


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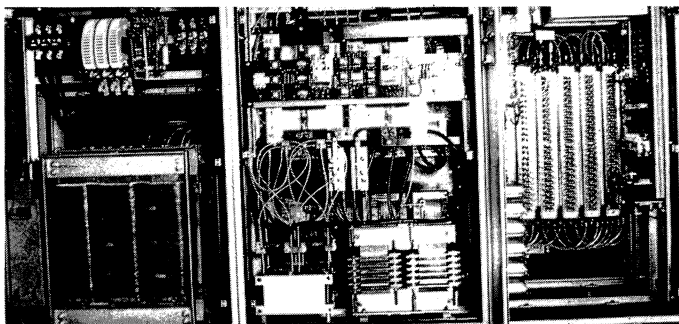
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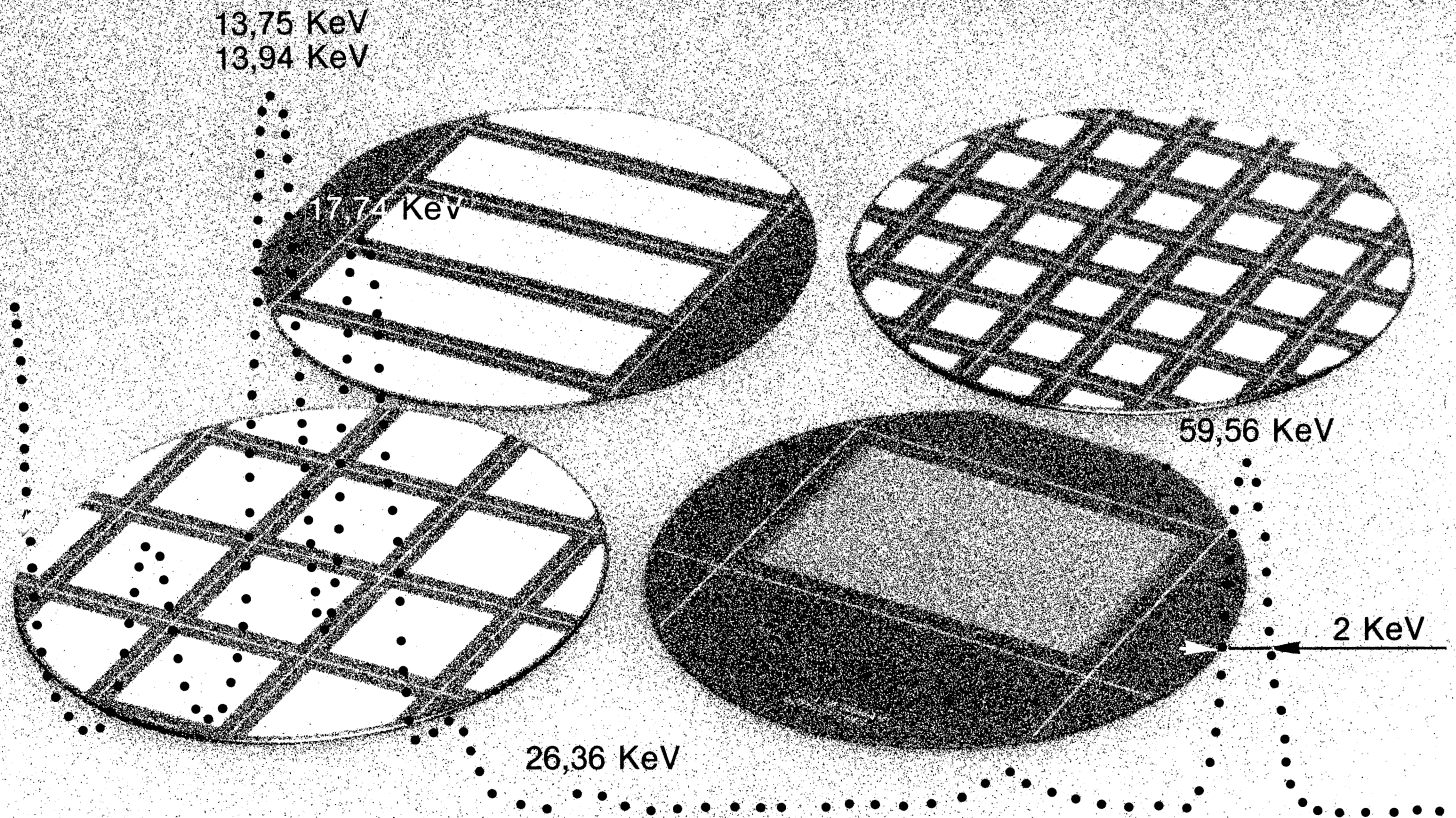
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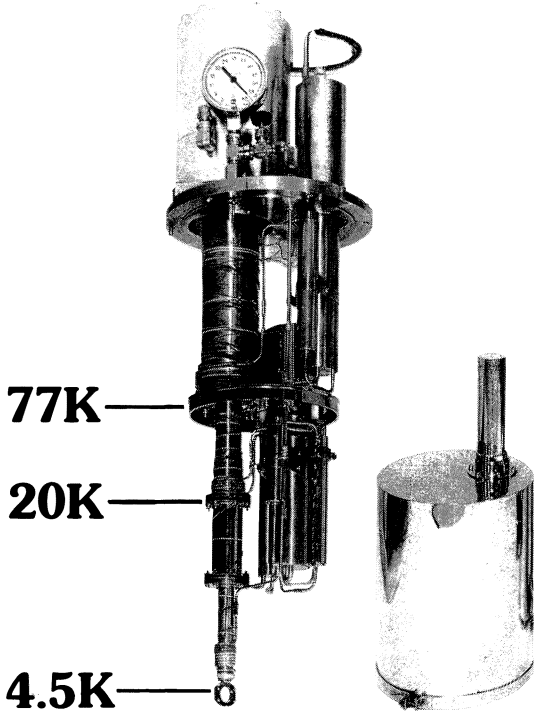
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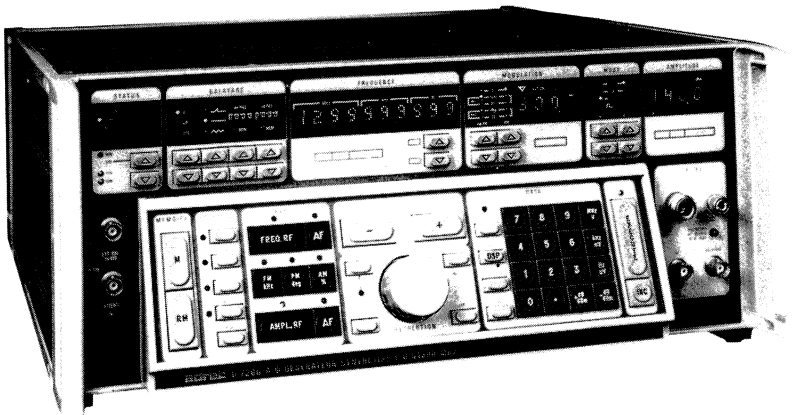
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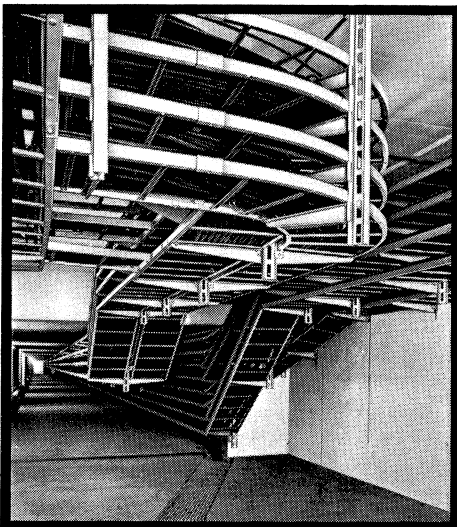
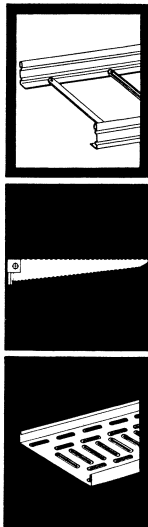
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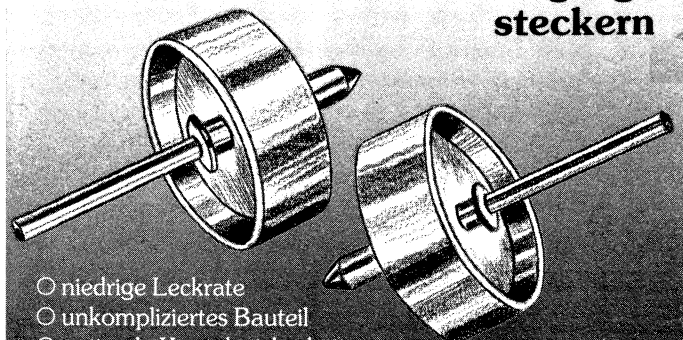


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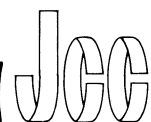
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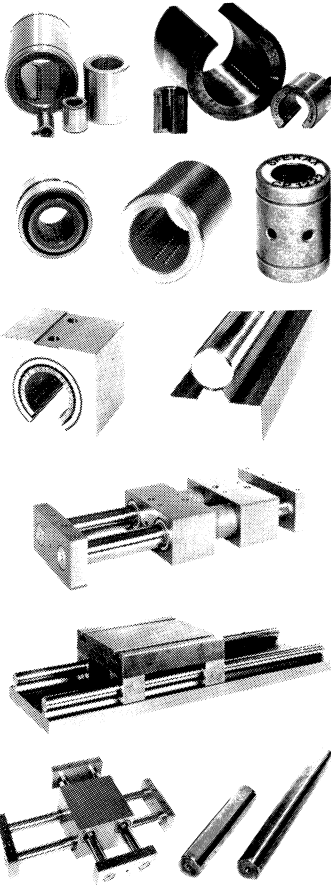
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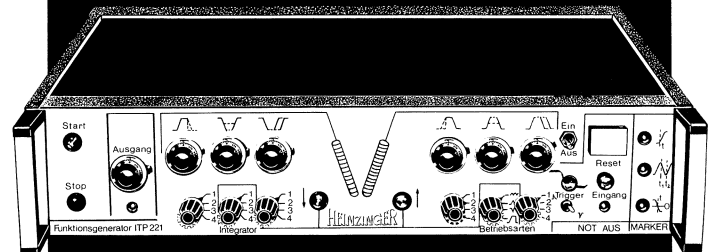
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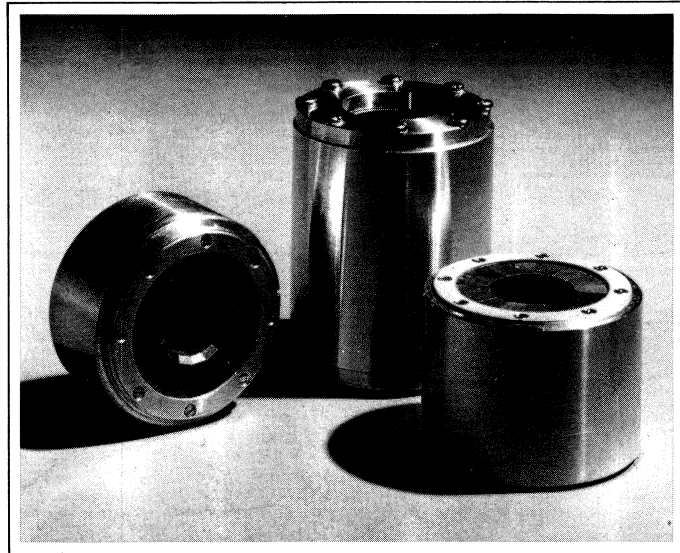
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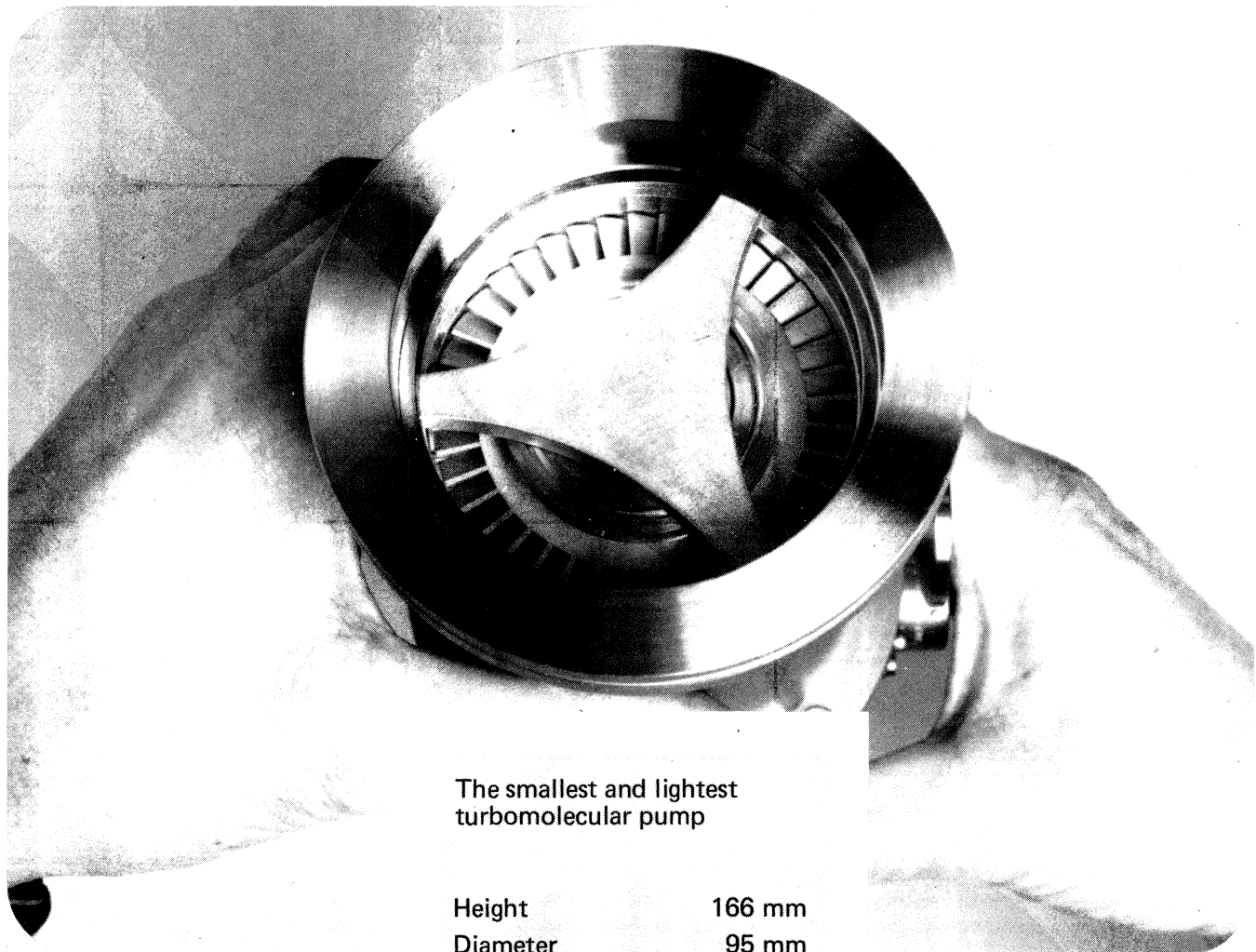
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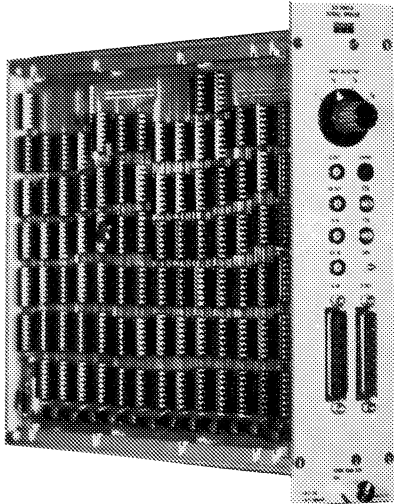
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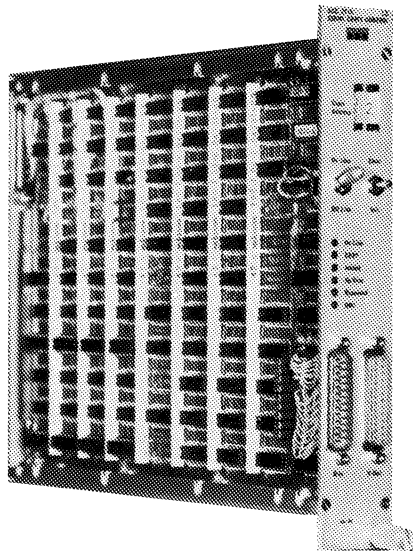
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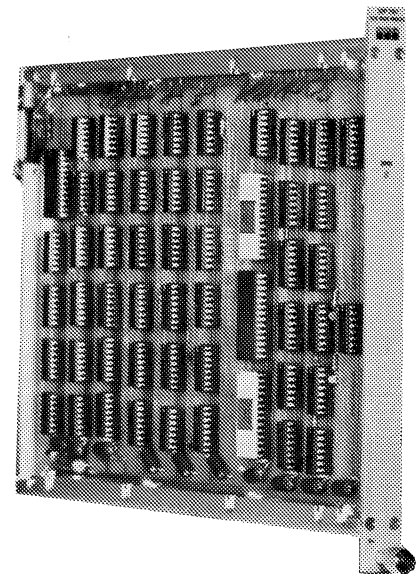
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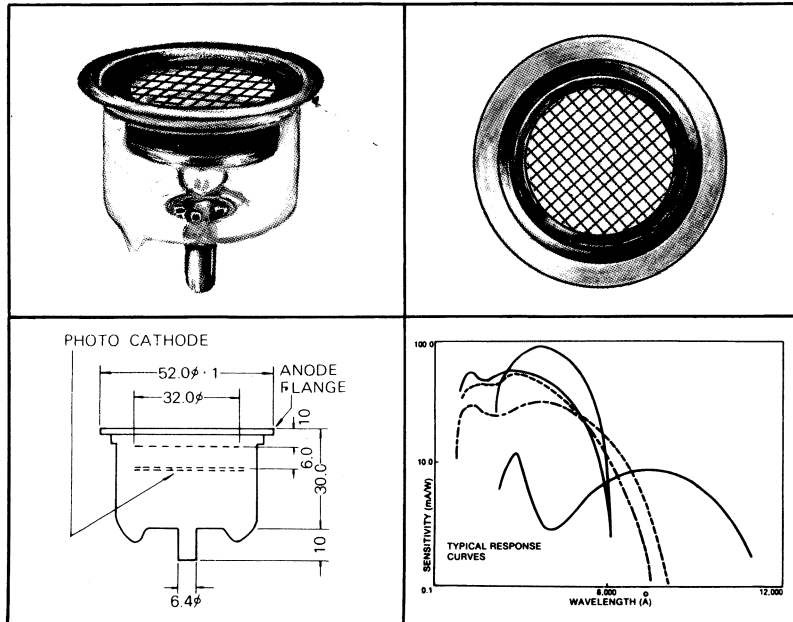
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