

People and things

Discoveries were made, frontiers were moved:

But the people said: 'Where are the secrets of nature?' And the engineers at CERN and the scientists made a mighty noise, and with the help of the administration convinced the Council of CERN to heed their demand: 'create anti-protons.' and 'let protons and anti-protons collide, and see the fruits.'

And so they did.

And lo, there was one of the secrets of nature. And in triumph they came to Stockholm, in the land of the Swedes.

But CERN will not rest on its laurels.

They ask already:

'Where are the other keys to the secrets of nature?' and 'How to find these keys' Answers are suggested. Some may be right, Some may be wrong, but Seek and you will find!

At CERN's laboratories and accelerators you find a strange class of mortals, impelled by an almost insane impulse to seek their pleasures among protons, antiprotons, neutrinos and antineutrinos, strange particles, quarks and anti-quarks, relics of creation itself.

These people will, if the CERN member states allow, dig further and further into the secrets of nature and one day find the next key to the secrets of nature.

Therefore, ladies and gentlemen; A sixfold toast to CERN and its excellent staff, to this Temple of the Future, to the wealth and well-fare of fundamental research, to new successes of the international collaboration of Science, to all scientists using the CERN facilities, to the excommunication of national prestige here at CERN.

On people

CERN theoretician John Ellis, 38, has been elected a Fellow of the prestigious Royal Society of London.

Among the distinguished scientists who received the US National Medal of Science, the highest scientific honour accorded by the US Government, this year were Maurice Goldhaber of Brookhaven, Frederick Reines of the University of California at Irvine, and Bruno Rossi of MIT.

The Center for Theoretical Studies at the University of Miami has awarded its annual J. Robert Oppenheimer Prize to John A. Wheeler of the University of Texas, Austin.

The American Association of Physics Teachers' Oersted Medal goes to Sam Treiman of Princeton.

Dirac medal

To honour one of the greatest physicists of the century, who died last October, and a staunch friend, the International Centre for Theoretical Physics in Trieste has announced the Paul Adrien Dirac Gold Medal Award, to be given annually for highest achievement in theoretical physics. The 1985 Selection Committee consists of Stig Lundqvist of Goteborg, Robert Marshak of Virginia Polytechnic, Abdus Salam (Director of ICTP Trieste), Julian Schwinger of UCLA, Leon Van Hove of CERN and Steven Weinberg of Austin. The 1985 announcement will be made on 8 August.

ICFA Meeting in India

The International Committee for Future Accelerators, ICFA, held its twelfth meeting at the Tata Institute of Fundamental Research, Bombay, on 10 April. ICFA approved the programmes of the four international Panels set up at its previous meeting in Leningrad (see March issue, page 64). The Panel on Superconducting Magnets and Cryogenics will organize a Workshop on the present state of the art in March 1986, probably in the US, while the Panel on New Accelerator Schemes will participate in the organization of a Conference on this topic already planned for the Autumn of next year, also in the USA. The next meeting of ICFA itself will be held in Brussels in October this year.

On 11 April a one-day seminar on Perspectives in High Energy Physics was held at the Tata Institute when some of the ICFA participants presented the accelerator projects of various regions of the world. In India itself, the Department of Atomic Energy has recently decided to create a Centre for Advanced Technology at Indore, Central India. The present plans are to build a 100 MeV proton linear accelerator, a synchrotron radiation source and, later, a 1 GeV proton synchrotron. In experimental high energy physics, a Tata Institute group is collaborating in the L3 LEP experiment at CERN and in an experiment at Fermilab.

Meetings

The CERN Accelerator School was greatly encouraged by the response to the General Accelerator Physics Course organized last year in collaboration with the Orsay and

In bubble chamber experiments, neutrino interactions in the chamber walls are normally rejected. However by studying the tracks coming from these interactions, a neutrino 'tomograph' of the chamber can be obtained. The figure shows the distribution of neutrino events near the iron wall of the Fermilab 15 foot bubble chamber from an experiment by an Illinois Institute of

Technology/Maryland/Stony Brook/Tohoku/Tufts group. A neutrino radiograph was obtained last year at CERN by the CERN/Dortmund/Heidelberg/Saclay neutrino experiment which clearly showed the iron walls of a liquid hydrogen target installed upstream of the detector (see July/August 1984 issue, page 239).

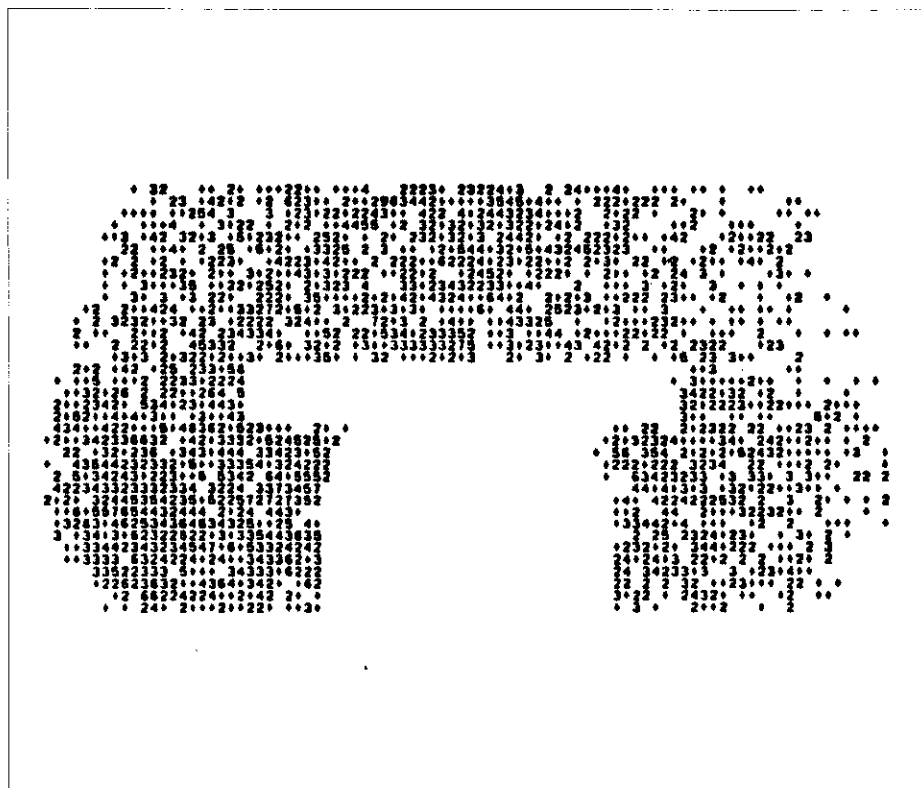
Saclay Laboratories in France. This year, the School offers the Advanced Accelerator Physics course, organized jointly with the Rutherford Appleton Laboratory and the Department of Nuclear Physics, Oxford. This course, to be held in Oxford from 16-27 September, is the logical continuation of the earlier one and requires prior knowledge of accelerator physics. Further information from Mrs. S. von Wartburg, CERN Accelerator School Secretary, LEP Division, CERN, 1211 Geneva 23, Switzerland.

The next in the series of IUPAP International Conferences on Nuclear Physics will be held in Harrogate, UK, from 25-30 August 1986. Further information from Meetings Officer, Institute of Physics, 47 Belgrave Square, London SW1X 8QX, UK.

Trieste pays tribute to Alfred Kastler

On 11 March, the International Centre for Theoretical Physics (ICTP) in Trieste paid tribute to the memory of Alfred Kastler, Nobel Laureate for Physics 1966 and Chairman of the ICTP Scientific Council from 1970 to 1982, who died on 7 January 1984.

The ceremony took place in the context of one of the programmes initiated by him the cycle of extended courses on Atomic, Molecular and Laser Physics, this year seeing the sixth of the series. The addition of Atomic, Molecular and Laser Physics to the multidisciplinary curriculum of the ICTP was by itself an innovation; however the most striking feature had been Kastler's total intellectual and



human commitment to the success of the first course. Despite all his other responsibilities, he directed the course from the first to the last day, listening to all lectures, taking part in all scientific discussions and taking an interest in young scientists from developing countries, not only in their individual difficulties relating to the course itself, but also in their day-to-day problems. Also he never missed the Italian lessons for course participants.

Another innovation of Kastler was the institution of courses in French for scientists from French-speaking African countries. This led to biennial Summer Schools on Physics Teaching and on Non-Conventional Energies. The cycle started in 1977 with the Physics Teaching School held in Trieste. The subsequent ones were held in Grenoble, France in 1979, Lou-

vain-la-Neuve, Belgium in 1981 and Bizerte, Tunisia in 1983. Louvain-la-Neuve will again welcome the 1985 School. The schools on Non-Conventional Energy have been held at ICTP.

During the ceremony, ICTP Director Abdus Salam and S. Lundqvist, Chairman of the ICTP Scientific Council, together with some of Kastler's former collaborators, described his many contributions to science and the spread of scientific knowledge.

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HIGH ENERGY PHYSICS RESEARCH ASSOCIATES

There are vacancies for Research Associates to work with experimental groups in high energy physics. Groups from the Rutherford Appleton Laboratory are working on experiments at CERN, DESY, SLAC and FERMILAB.

Candidates should normally be less than 28 years old. Appointments are made for 3 years, with possible extensions of up to 2 years. RAs are based either at the accelerator laboratory where their experiment is conducted, or at RAL depending on the requirements of the experiment. We have in addition home-based programmes on development of detectors, microprocessor systems, etc. Most experiments include UK university personnel with whom particularly close collaborations are maintained.

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Applications should be sent before June 30, 1985, to the Director of

**Département de physique nucléaire
et corpusculaire
Prof. E. Heer
24, quai Ernest-Ansermet
1211 Geneva 4,**

from whom further information may be obtained.

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Candidates should have a history of significant accomplishment in accelerator physics or related fields, and the demonstrated ability to organize and lead the work of experienced physicists, engineers, postdoctorals affiliated with the Accelerator Technology Fellows Program, and support staff. Applications and inquiries should be directed to: Ernest D. Courant, Chairman, Search Committee, Building 902A, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal opportunity employer m/f.

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Applications (including curriculum vitae, list of publications and the names of two referees) should be sent as soon as possible to

Prof. N. Schmitz
Max-Planck-Institut
für Physik und Astrophysik
Föhringer Ring 6
D-8000 München 40, West Germany



EUROPEAN SPACE AGENCY

The European Space Agency offers a

RESEARCH FELLOWSHIP IN X-RAY ASTRONOMY

in its Space Science Department (Astrophysics Division) situated at the European Space Research and Technology Centre (ESTEC), Noordwijk, the Netherlands.

Research and development of focal plane instrumentation for future generations of X-ray imaging telescopes is being undertaken, based on the Gas Scintillation Proportional Counter development pioneered within the group. Observational data from the EXOSAT mission are being analysed.

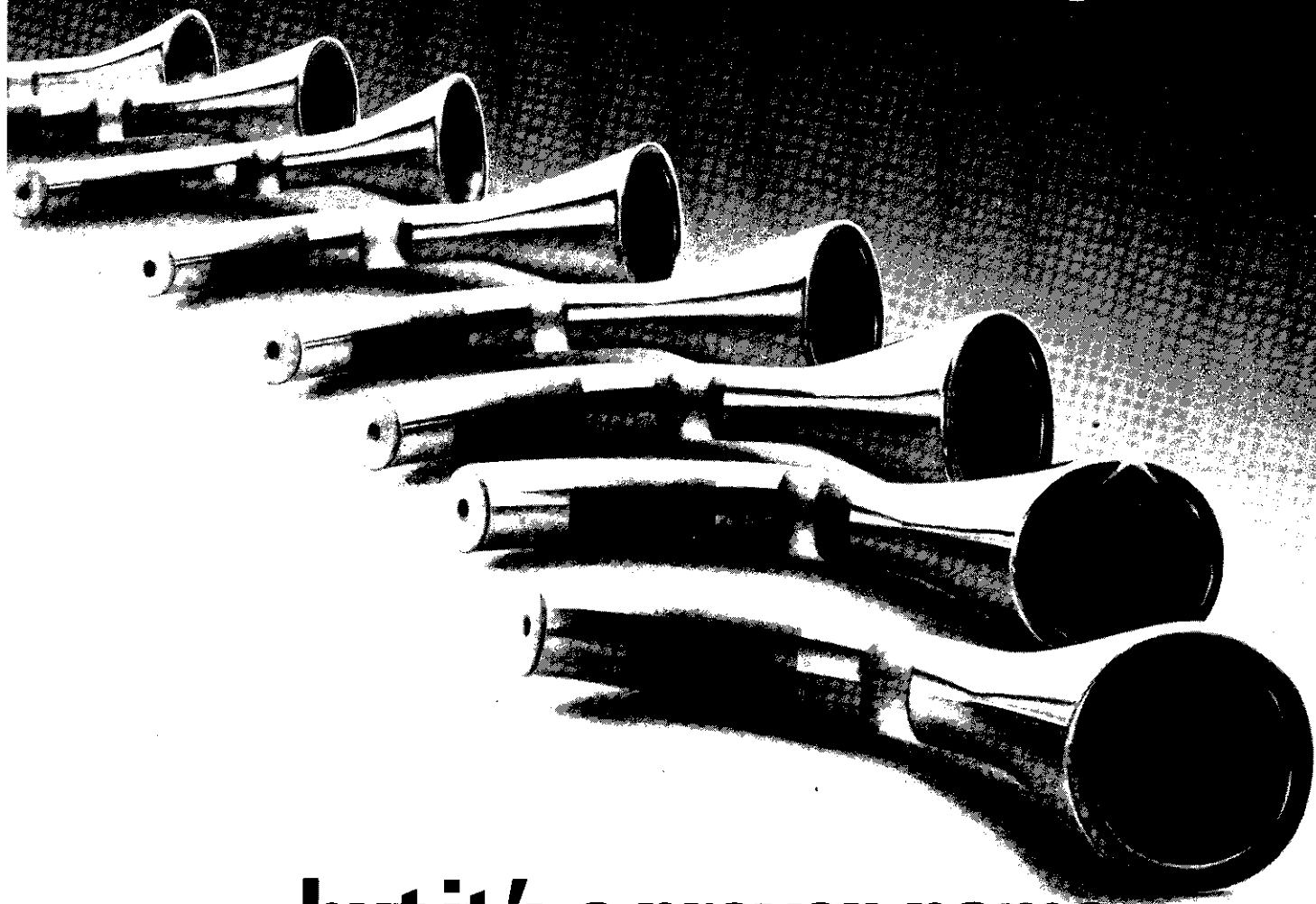
Applicants should have research experience in the development of instrumentation, either in the space field or in nuclear physics, and be conversant with associated electronic systems and data handling. Knowledge in astrophysics, while desirable, is not essential.

Applicants should also have a Ph.D. or equivalent degree. Good knowledge of English or French is required; some knowledge of the other language is desirable.

The fellowship will be for a period of one or two years.

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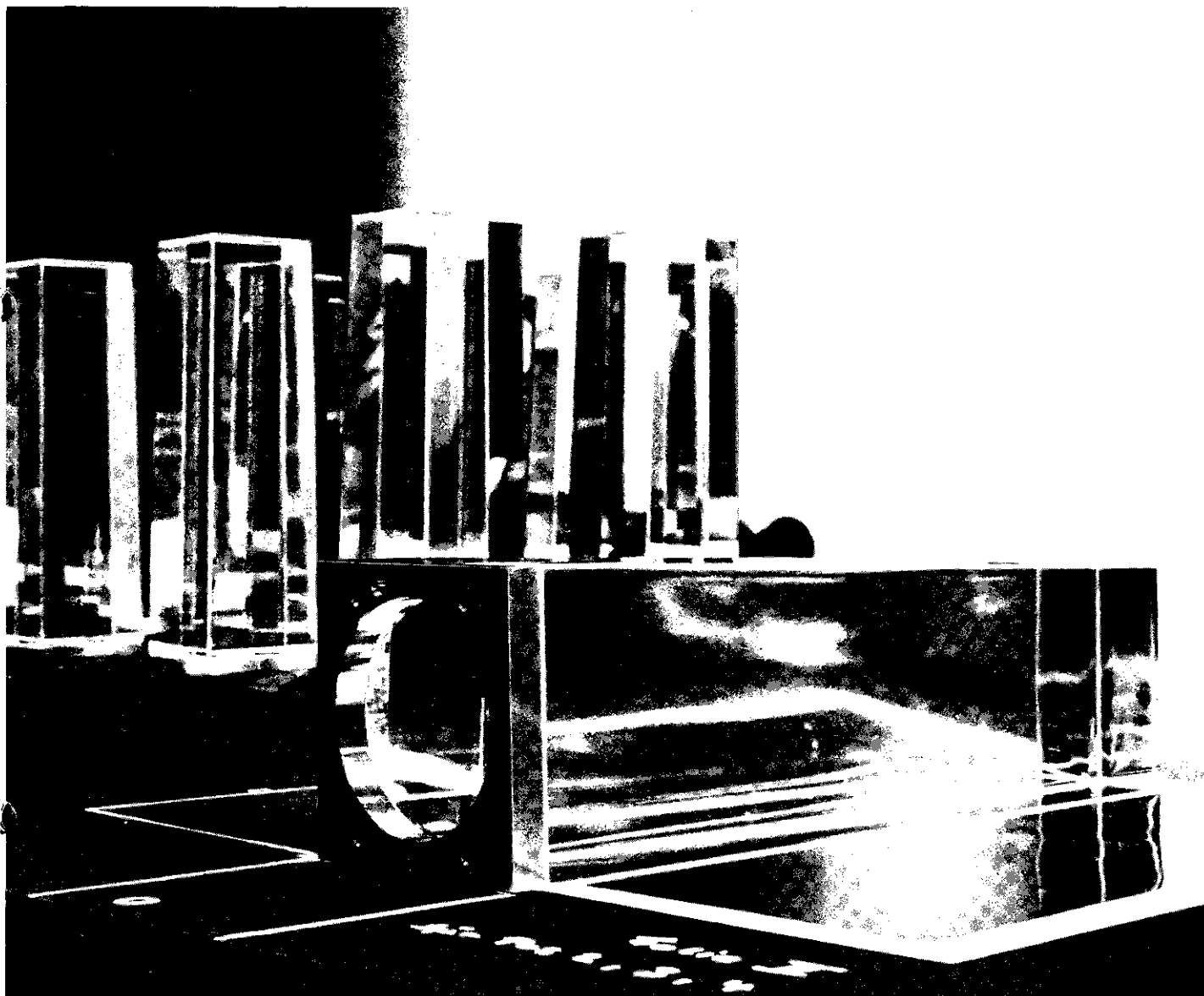
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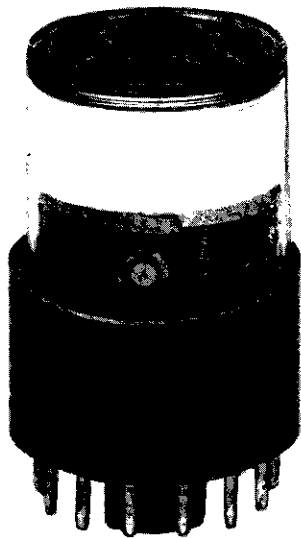
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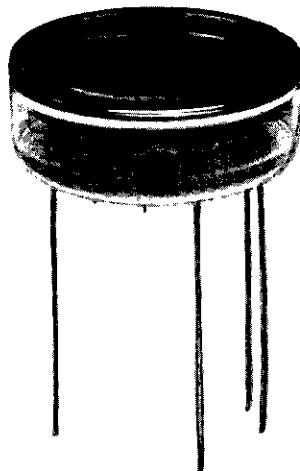
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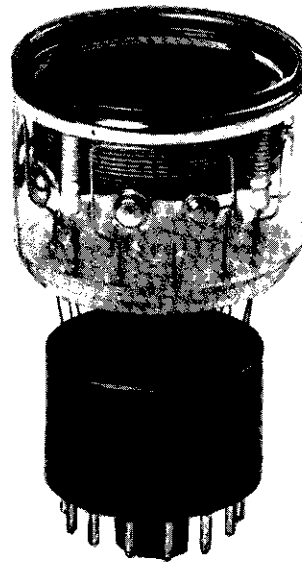
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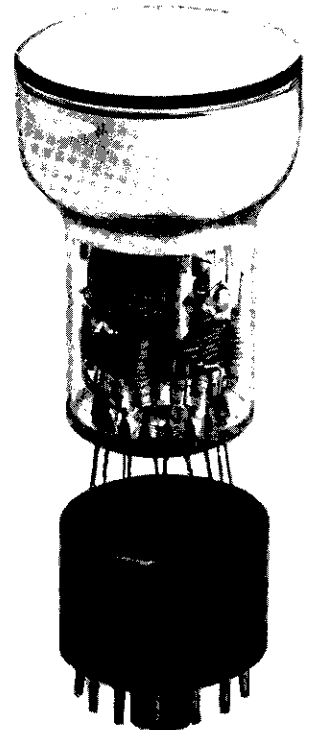
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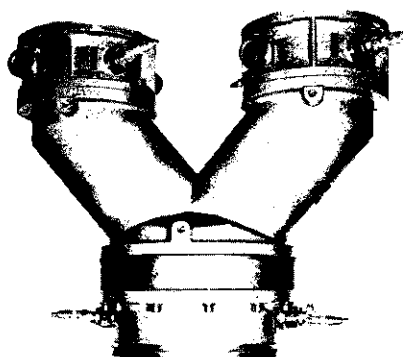
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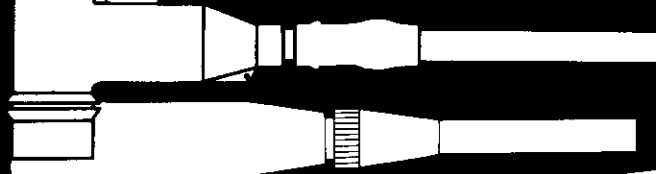


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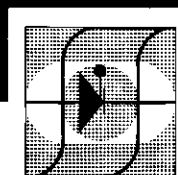
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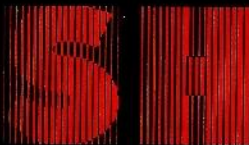
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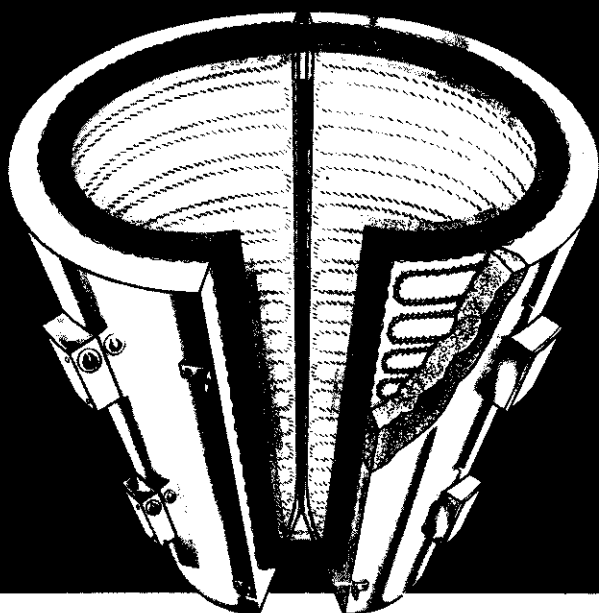


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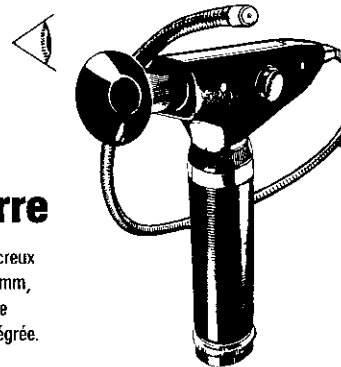
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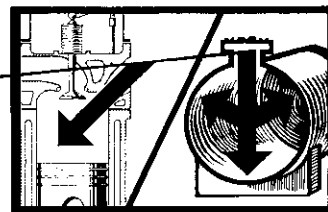


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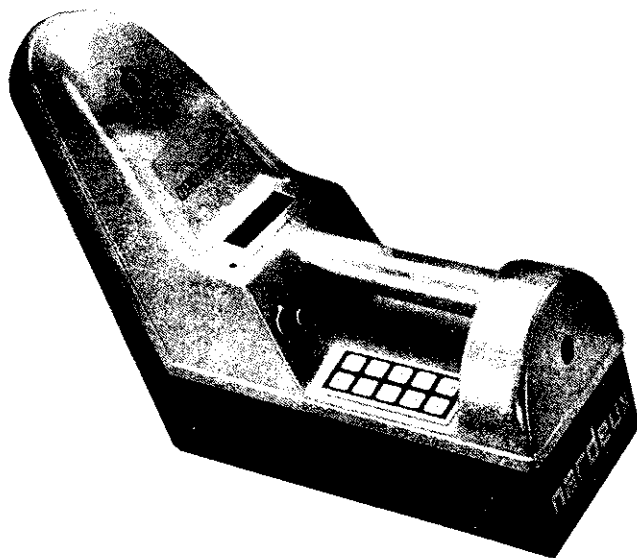


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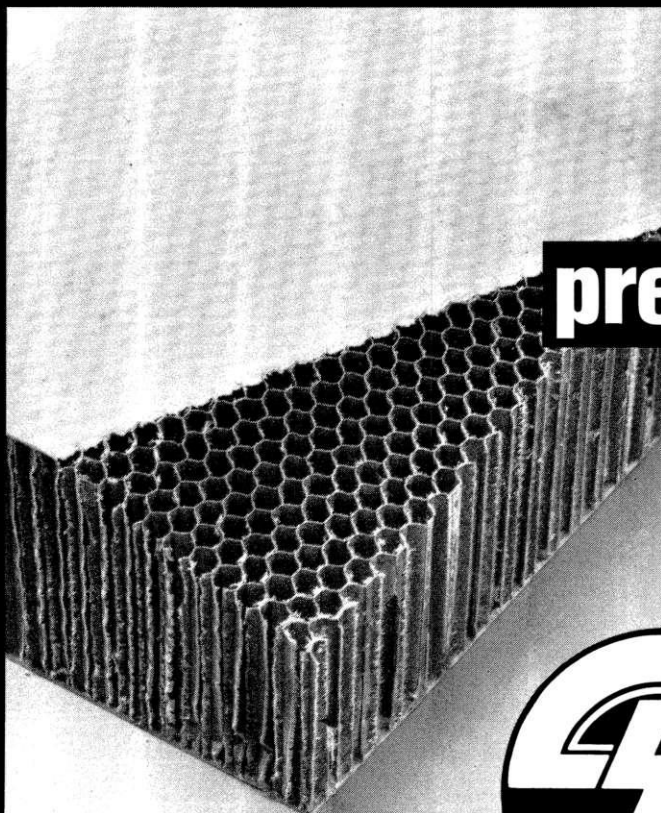


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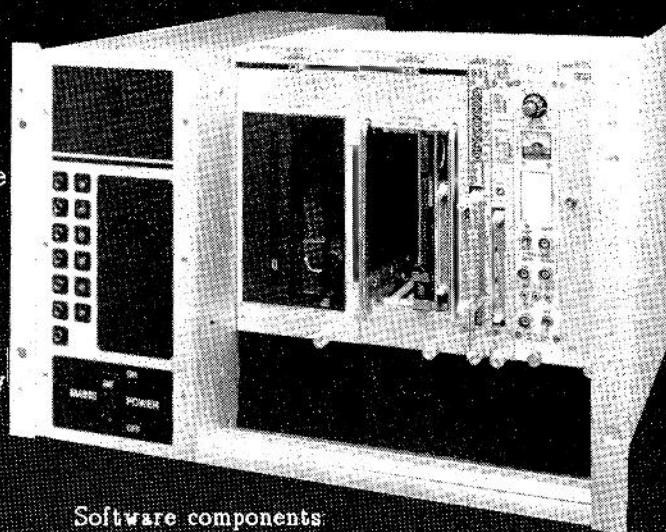
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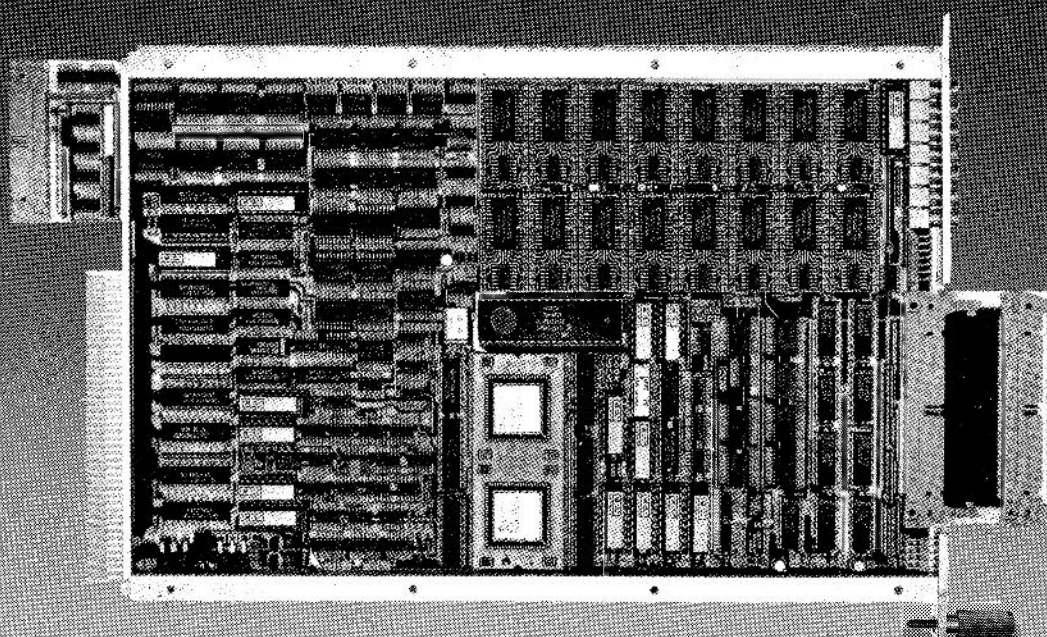
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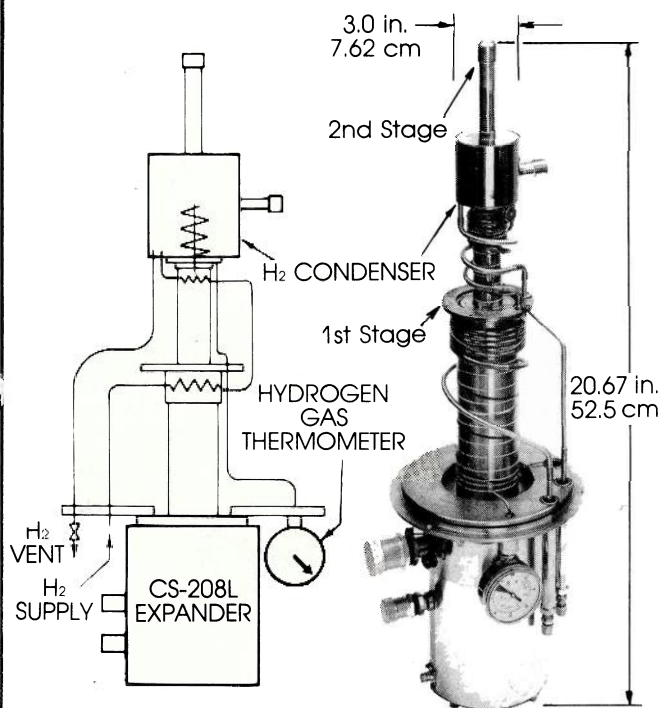
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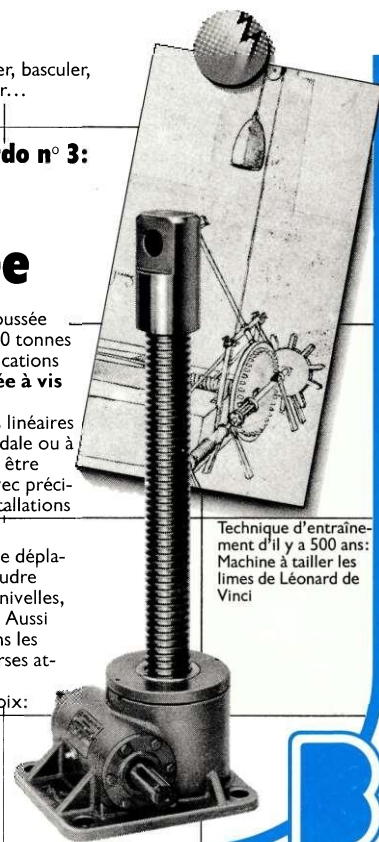
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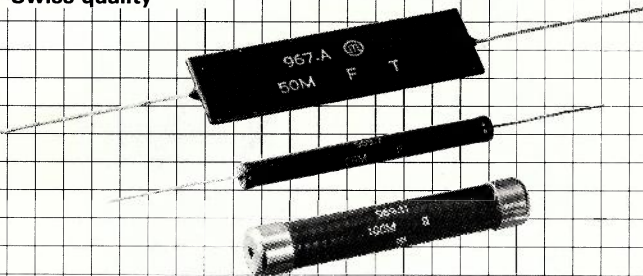
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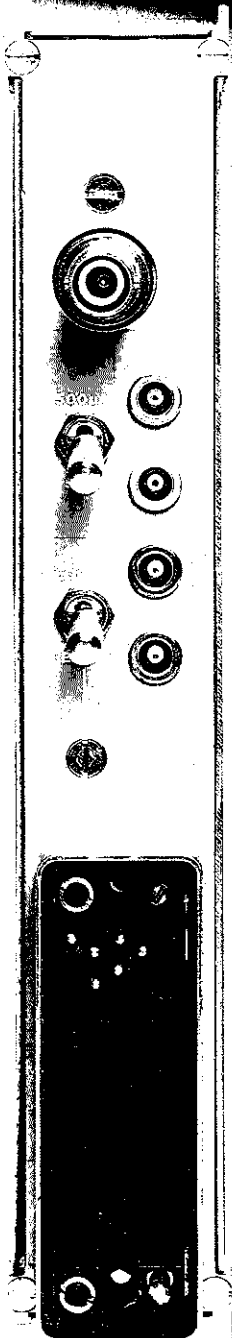
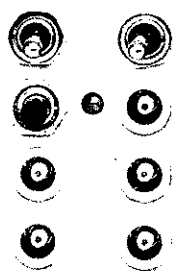
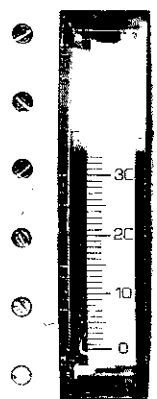
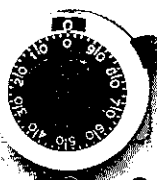


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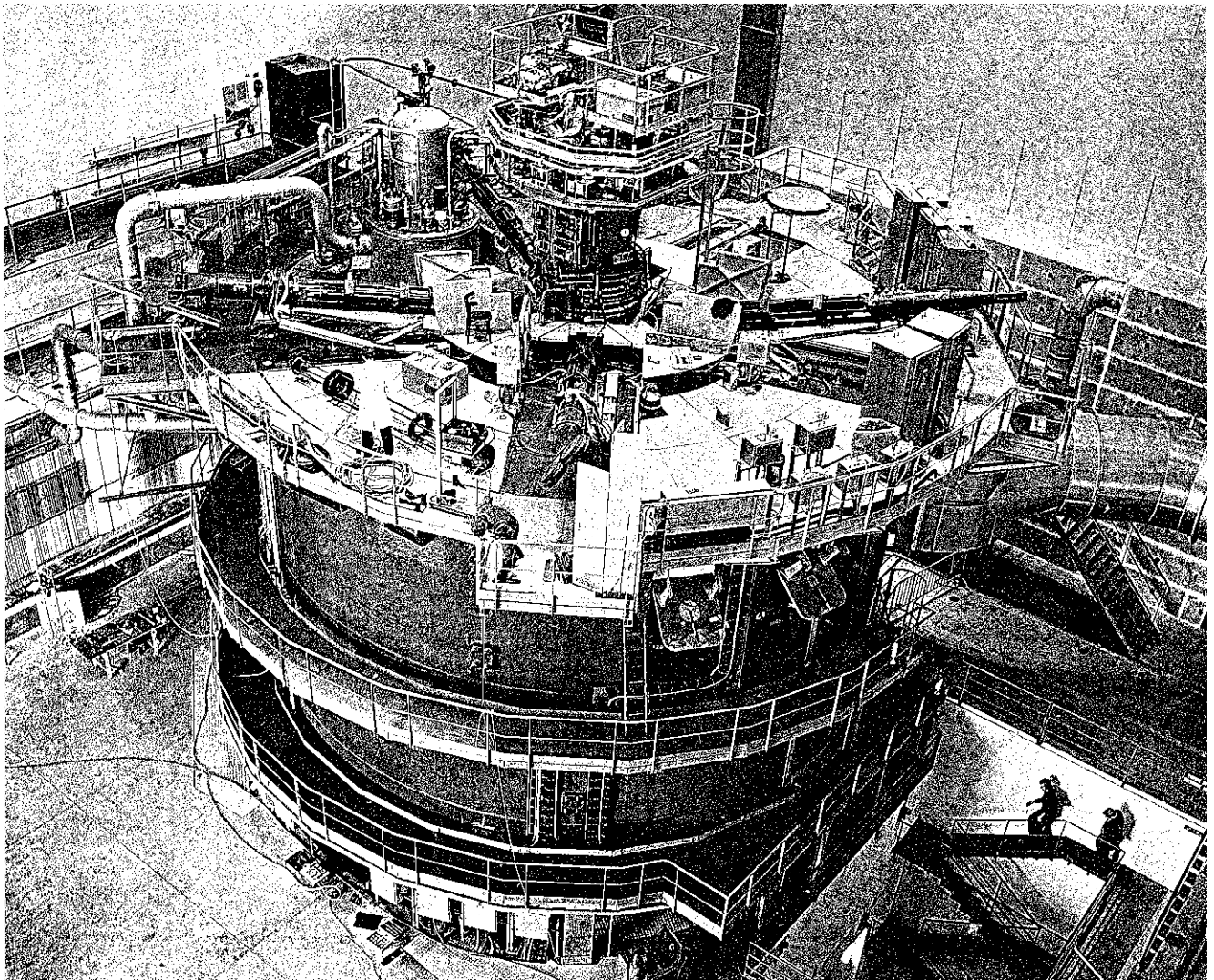
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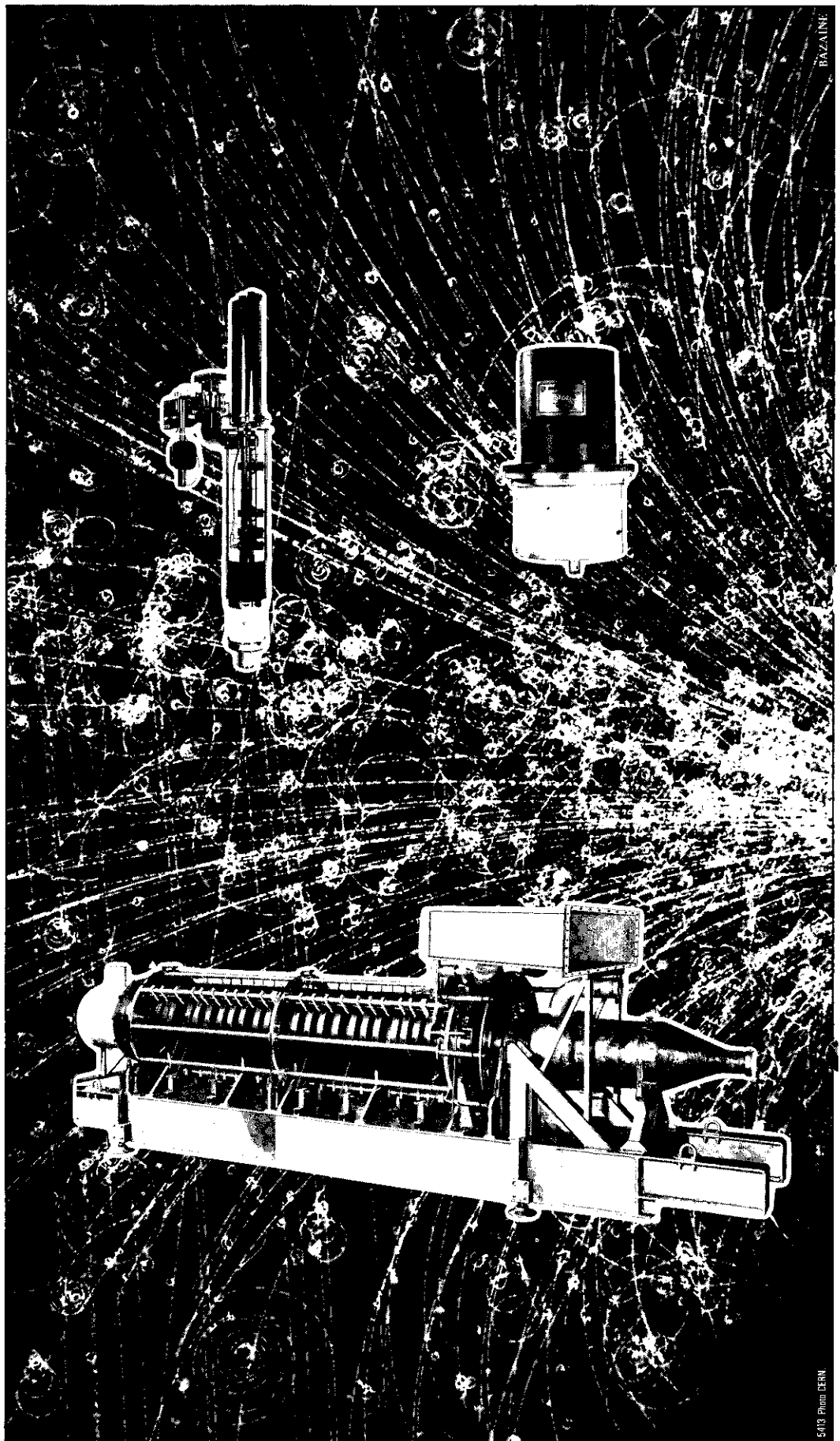
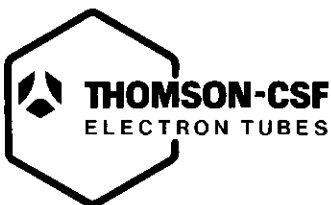
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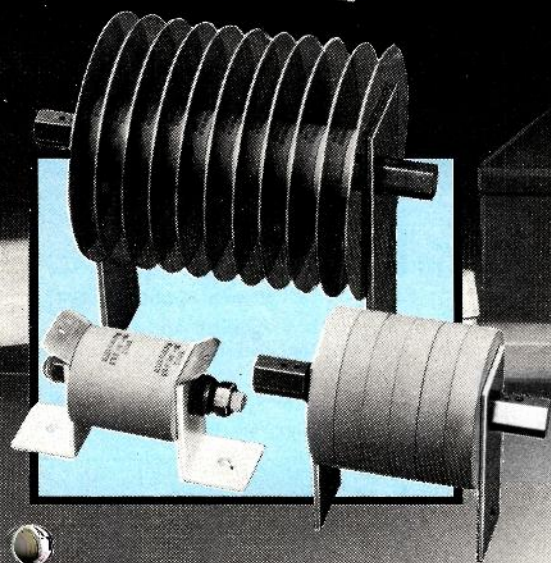
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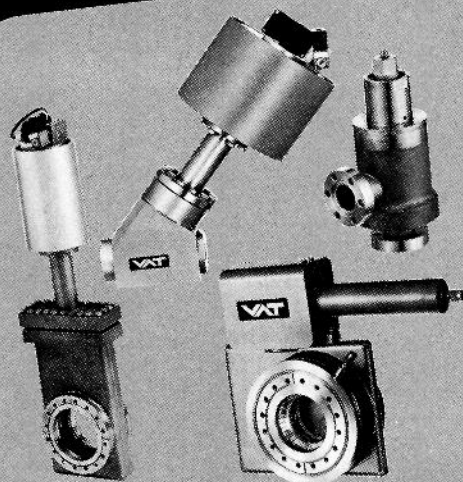
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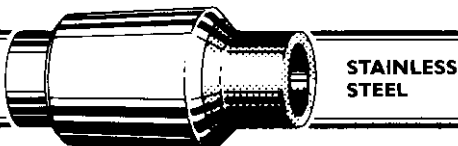
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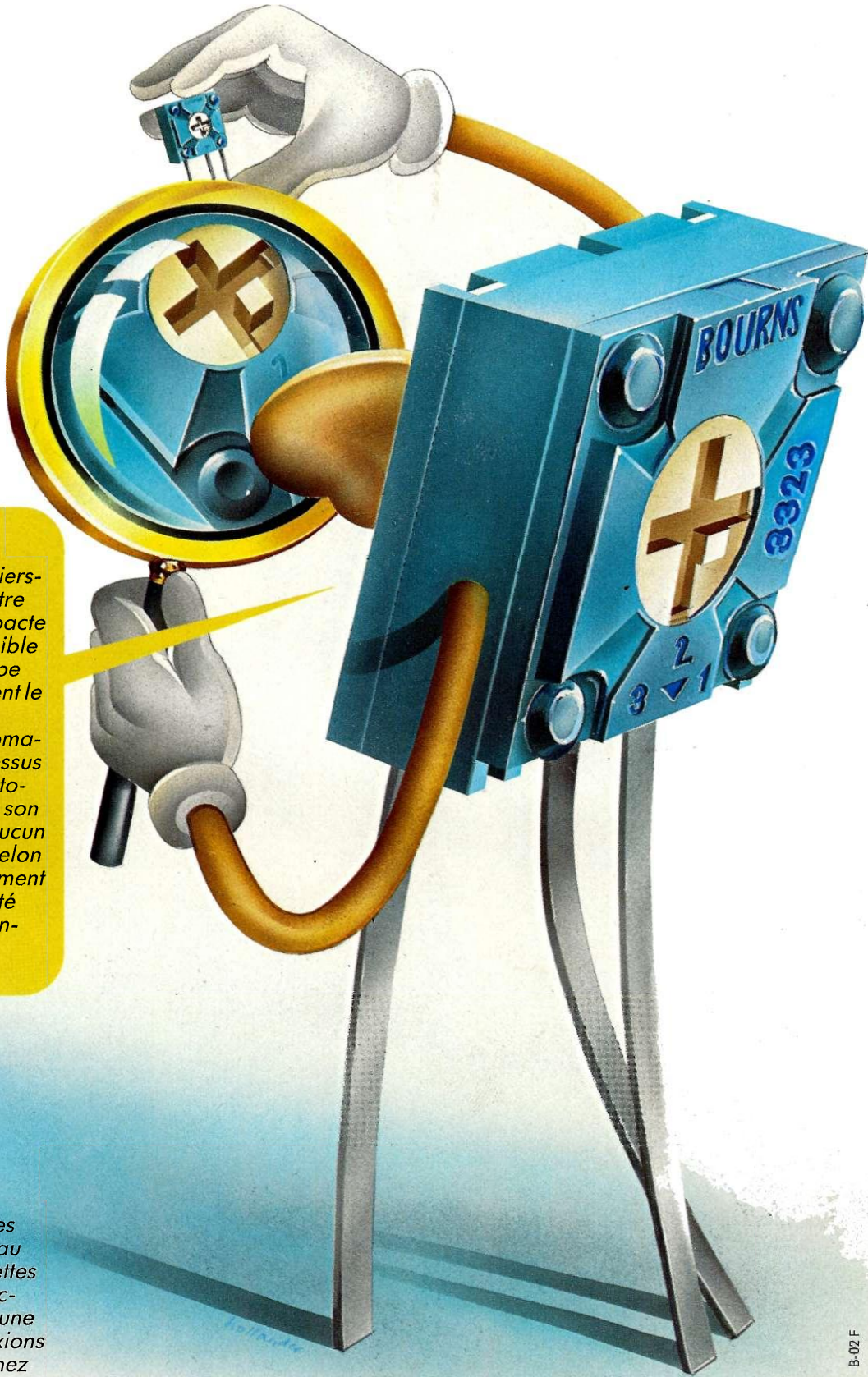
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Ce petit est l'un des derniers-nés de Bourns, un potentiomètre Trimmer de la catégorie compacte Cermet, 6 mm x 6 mm: très faible encombrement. C'est à la loupe que ses avantages apparaissent le plus clairement.

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Comme tous les potentiomètres Trimmers de Bourns, le nouveau modèle 3323, est livré en barrettes plastiques de 50 pièces. Impécable, d'accès aisé, il permet une protection parfaite des connexions sorties. Invitez donc le 3323 chez vous. Son curriculum vitae est à votre disposition.



Bourns (Schweiz) AG, Zugerstrasse 74
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PHILIPS PNA7507

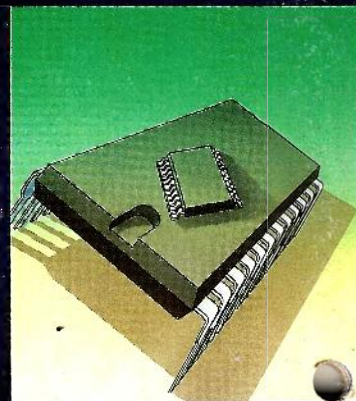
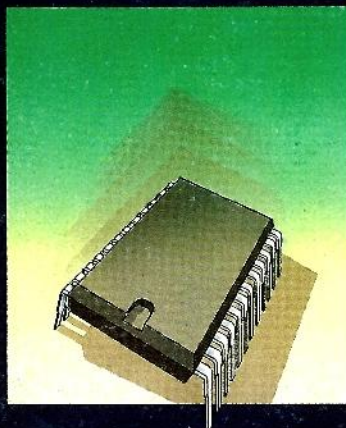
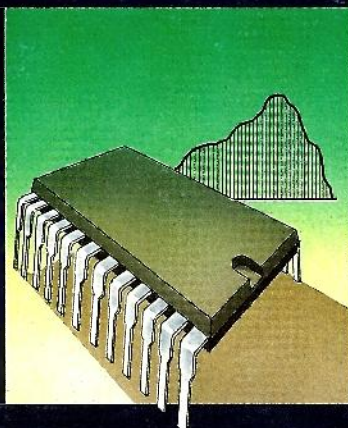
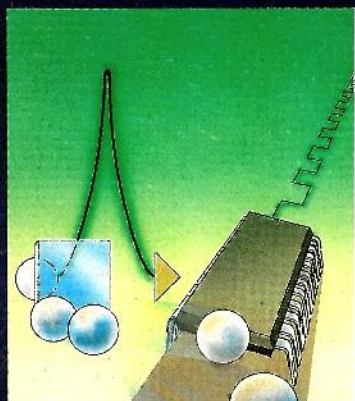
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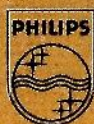
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