

YMCA PAINTED - Members of the painters union local 1124 last week in cooperation with the painting and decorating contractors association, Medford chapter, painted the Medford YMCA lobby, offices and meeting room. Shown above painting are, left to right, Loren Haroldson, Johnny Walters, Bob Gault and Bob Bradford, all of Medford. Late last year, acoustical plaster was placed on the rooms, including the game room. (Knackstedt photo)

Titanium Scrap for Use in Ingot Production Given Patent

Washington—(Science Service)—A method of recovering scrap titanium and using it to make electrodes for titanium ingot production has won a U.S. patent for two Ohioans. Titanium is a heat-resistant metal used in "skins," leading edges and engine parts of supersonic aircraft. But titanium's characteristics and ingot production methods do not permit use of scrap pieces in the same way that other metal scrap is recovered.

William Howell of Warren, Ohio, and Richard M. Scriber of North Jackson, Ohio, have invented a method of producing titanium ingots by using titanium scraps of any size, shape or characteristic to form consumable titanium electrodes. The electrodes are formed by packing the scrap into elongated containers of titanium sheet material, held in place by radially disposed wedges driven through the sides of the container and into the mass of scrap.

The inventors received patent No. 2,867,895, one of 1,319 patents granted by the U. S. patent office here last week. They assigned their patent to Mallory-Sharon Metals Corp. **Jet Can Take Off Vertically**

A jet-propelled airplane capable of vertical take-off has earned a patent for Herbert Eugene Chaplin of Hayes, England.

His plane has an undercarriage mechanism that will support it in either a horizontal or vertical position. The mechanism, which is powered mainly by skids, is power-driven so that it may be adjusted from one position to the other while supporting the craft.

The plane also features a pilot's seat adjustable through a 90-degree angle, so that the pilot may sit upright regardless of the position of the plane. Another feature is a propulsive unit capable of giving a static thrust exceed-

ing the weight of the aircraft, so that it may climb rapidly. Chaplin was granted patent No. 2,868,477, which he assigned to The Fairey Aviation Company Limited, also of Hayes.

Electrodes to Germanium
A new method of soldering electrodes to semi-conducting crystal elements, such as germanium, said to offer great improvement in forward conductivity, has won another patent.

It involves soldering in an inert atmosphere without the use of a flux or intermediate metal layer.

In previous methods using fluxes or intermediate layers it was necessary to remove impurities introduced by the flux or correct the electrical characteristics of the crystal often altered by the metal layer.

In the new method, solder is melted in an inert atmosphere to prevent oxidation of the solder. The semi-conductor is floated on the molten solder and then removed, with a thin layer of solder adhering to it. Next, the electrode is mounted on this thin layer, which is melted to bond the electrode to it.

Aliens Reminded to Report Addresses

Portland—The U. S. immigration and naturalization service has again reminded all aliens in the state of Oregon that only six days remain in which non-citizens may file their annual address report, as required by law.

James L. Turner, district director, pointed out that address report forms are available at the nearest immigration service office or post office for the convenience of non-citizens required to report their address to the government each January under a provision of the Immigration and Nationality Act of 1952.

For this process, Bernard Jacobs of Clifton, N. J., was granted patent No. 2,867,899. He assigned it to International Telephone and Telegraph Corp.

Compacts Fine Powders
Three men from Michigan have invented an apparatus for compacting into pellets finely divided solids, such as the various forms of synthetic silicas and carbon black used in industry as flattening agents in paints.

The device produces dust-free pellets by two basic steps, a compression step and a tumbling step. The former involves a deaeration of the material followed by compaction to a density of at least four pounds per cubic foot. The latter step involves tumbling the compressed solid until substantially dust-free pellets are formed.

The invention, which received patent No. 2,867,843, was assigned to Dow Corning Corp., Midland, Mich., by Harold L. Browne and Owen C. Cookingham of Midland, and Donn W. Pendleton of Beaverton, Mich.

Includes Snow Scraper
An all-weather combination brush and snow remover has earned a patent for Emanuel Gantz of Harrison, N. Y.

The implement has a base containing both stiff brush bristles and a curved metal scraper. These are placed in such a way that each may be used separately depending on which side of the base is turned downward. The combination is designed so that both the brush and scraper force the brushed or scraped material forward and away from the bristles.

The invention received patent No. 2,867,827 which was assigned to Empire Brushes, Inc., Port Chester, N. Y.

Mental Health Play Planned by Group

The mental health play, "Which Way Out," will be produced by James Backen of Crater High school, Central Point, during February, according to Mrs. John Brandenburg, supervisor of the production.

The play deals with emotional disturbance in a family and its effect on adolescents. The cast will include Janet Scalberg, Margaret Pendleton, Jim Conger, Jim Hays and Betty Jones.

Dr. Dorothy Stolp of Southern Oregon college will produce the play, "Broken Circle," during March, and the same play will be produced by Mrs. Ivan Burton during April, Mrs. Brandenburg said. The play concerns a couple who have sought help to repair the broken lines of communication in their relationship to each other, and to better understand the pressures they put on their son.

Mrs. Henry Padgham is scheduling the plays. Program chairman and group leaders interested in having the play presented may contact Mrs. Brandenburg or Mrs. Padgham.

The plays are 30 minutes, and discussion leaders will be provided.

Eagle Point Lions Have Calendars

Eagle Point—The Eagle Point Lions club has announced that community birthday calendars have arrived and anyone interested in obtaining one may contact club President Leroy Register or Jake Olsen.

Proceeds from the sale of calendars goes to the club's sight conservation fund.

The calendars were delayed in shipment, according to Glen Hale, calendar program chairman. The sale is an annual event of the Lions club in Eagle Point.

Hospitals Marshall Defenses To Contend With Infections

New York—Within the past two years hospital staffs have been marshalling their defenses to contend with a sharp rise in infections. They manifest themselves in a variety of ills, ranging from abscesses and rashes to fatal blood poisoning, according to Stuart Mudd, president of the International Association of Microbiological Societies. The principal offender is a ubiquitous parasite called "staphylococcus" which has acquired resistance to the so-called "wonder" drugs, Dr. Mudd reported in an article in Scientific American.

"These microbes, which are distinguished by their communicability and virulence,"

EVICTION

Hartford, Conn.—(UPI)—After two years of helping settle disputes between landlords and tenants, Sebastian Polo had to take time off from his job as chairman of a fair rent committee. His own rented duplex was converted into a rooming house and he was evicted.

Dr. Mudd said, "the product of selection of antibiotics. By bad luck the strains which have developed resistance to the antibiotics and related drugs happen to carry the most harmful traits of their genus. The foci of prevalence are the hospitals, where antibiotics have been employed extensively in recent years not only for treatment of diagnosed infection but also as a general prevention—often with neglect of the standard routines of asepsis and antisepsis. The consequent invasion of these virulent organisms has thus caught physicians ill prepared with alternatives to antibiotics. The emergence of the miracle drugs, the sulfonamides in the 1930s and the antibiotics in the 1940s, discouraged interest in and support for the classical lines of bacteriological research just as they were reaching fruition with respect to staphylococcus infection. Common Hazard

The article added: "Of course infection was the common hazard of hospital confinement throughout the centuries before the introduction of antiseptics and disinfectants in the last decades of the 19th century. The staphylococcus, together with the pneumococci and streptococci, took the principal toll. Intense study finally succeeded in producing a body of knowledge from which techniques were developed for coping with pneumococci and streptococci. Unfortunately, comparable study of the less harmful staphylococcal infections lagged, particularly after the successful introduction of chemotherapeutic agents.

"What can be done by the

DOESN'T GIVE A HOOT

Gettysburg, S.D.—(UPI)—Ronnie and Charlotte Meserve have a pet horned owl which chatters back and forth with their parakeet but refuses to talk to people. The children found the horned owl north of this prairie country community while it was a baby with fuzz instead of feather. It isn't old enough to hoot yet, Ronnie and Charlotte say it hisses.

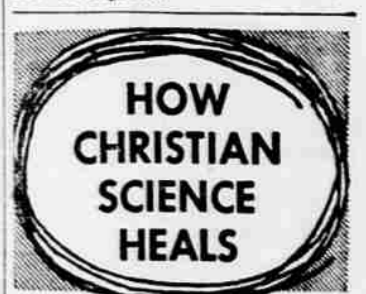
intelligent public to help in this situation? The hospitals are hard-pressed on many fronts. Diagnosis and treatment have been undergoing great and rapid elaboration, at a large increase in cost. Nurses, and in many hospitals, interns and residents are in short supply. In consequence of all this most hospitals now operate in the red. The return to meticulous asepsis and antisepsis—which with the many precautions essential to good housekeeping appears at present to offer the most immediate hope for blunting the invasion—is costly in time, effort and money. More adequate financial support by the public for its hospitals could be very helpful indeed.

Fund for Research

"Congress has appropriated \$1 billion for staphylococcal research through National Institutes of Health research grants, and with the appropriation of \$325,000 for the current fiscal year the Public Health Service is expanding

its services and investigations relating to staphylococcal disease at the Communicable Disease Center in Georgia. Our present ignorance in this significant area of medicine cannot, however, be dissipated in a few years by the work of a few investigators. Nor can we at this time predict the outcome of the extraordinary struggle for survival of a versatile microorganism against the efforts of an aroused medical profession. But sustained effort on a broad front will reap rewards measured in terms of deep-

ening scientific insight and of increased security of health for everyone."



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