Russian Doctors Far Advanced

geniously uses tiny metal staples instead of thread to close surgieal wounds ..

A miniature sleep machine hat uses electricity to nudge patients into unconsciousness . . . A surgical camera that takes

scientific instruments, all prod-ucts of the growing ingenuity of Russian medicine, may soon be manufactured in the United Corp. of Cleveland announced last month that it has paid \$50, 000 for a nine-month option to buy the designs of these and thirteen other kinds of Russian

"If American surgeons think that these instruments are as good as they look," Rand's energetic president. H. James Rand, said recently after a visit to the Soviet Union, "we will pay \$50,000 for the blueprints." (Afler that, Rand says he will 'rent" the rights from the Soviets for \$50,000 a year for ten hese rights to American manufacturers.)

stomach, and was developed by the Russians during the war, ac cording to Rand, because of a U.S. surgeons will get a chance to examine the instruments next September, when a Russian surshortage of military surgeons: "Now, once an engineer has prepared the machine-and it takes geon and a technician will begin three - month demonstration about half an hour to do thisall the surgeon need do is push tour of American medical schools, performing operations on animals. Many of the instrua button. This gives even a mediocre surgeon a gifted hand." In major stomach operations, Rand said, the stapler reduces the sewments-like the surgical camera -are simply refinements on ing time from about two hours American devices. Both the suturing and the sleep machines, to twenty minutes, and an added advantage is that the metal however, are radical departures. staples do not irritate tissues as How does the Russian sleep thread sometimes does. machine work?

To Rand, who took along Rand who himself has been prominent U.S. doctor on each of out to sleep by it, explained: his three trips to Russia, these This isn't shock therapy. There surgical instruments are a result are no muscular contractions. of "the tremendous amount of Instead, a small amount of elecmen and money the Russians put on a project. At the Insti-tute for Surgical Instruments in ric current is pulsed into the brain to suppress certain wave patterns. In from a few seconds Moscow, they have 400 experts, many of them both surgeons and to twenty minutes, the patient falls asleep, and only intense engineers. In manpower, this would be equivalent here to an pain will wake him while the two electrodes are fastened to evestment of about \$15 million his head. It's the weirdest sight, When you put that amount of noney into a problem, you are likely to come up with a solu-tion." —From NEWSWEEK.



sian mental ward all wired up and fast asleep."

The sleep machine comes in a large model which treats sixteen

patients at once, and a small, one-patient model which looks like (and will cost about as

much as) a transistor pocket radio. Besides quieting mental patients, Rand said, it may be

used to soothe surgical patients

The suturing machine, Rand

said, has been used in Russia with dramatic effect. Its speed

and accuracy have been among

its advantages which have en-

abled Soviet surgeons to perform

such daring operations as the

grafting of a puppy's head on the neck of a full-grown dog.

"The Russians showed us mo-

tion pictures of a woman whose

hand was caught in a punch

press," Rand reported last week.

"They amputated the hand,

rinsed out all the blood clots in

a heart-lung machine, refriger-

ated it, and then stapled it back

on. The woman, they told me, now plays the piano."

The stapler comes in 40 dif-

erent sizes and models, for such

highly different organs as the

under local anethetics just be

fore and after surgery.

Exactly 119 years ago on July th a trim 207-foot wooden pad-dle steamer put out from Liver-pool for Halifax and Boston. The little vessel carried 63 passengers, mail and a soft-eyed milch cow whose job it was to have on ap nourishment for the ship's passengers and crew.

Prominent among the doughtyvessel's passengers was a mer-chant ship-owner of Halifax, N.S. When after 14 days and eight hours steaming the little adian shipowner received precisely 1,800 invitations to dinner. The little paddle-steamer was ent passenger was Samuel Cun-ard, the man who with this pio-neer voyage had introduced regular passenger and mail ser-vice on the North Atlantic.

In contrast to the Britannia' 53 travellers of July 4, 1840, the Cunard liners Saxonia and Sylvania sailed from Montreal recently with 1,834 passengers. From New York on July 1st, another Cunard vessel, the 81,000 ton Queen Mary, sailed for Europe with 1,942 vacation-bound Canadians and U.S. citizens.

In Southfield, Mich., High School Teacher Richard Welkenbach keeps discipline by writ-ing on the black board. "I'm in bad mood today." and adding a drawing of a bullwhip.



Time out for refreshment in wheat cutting time. Cutter Bus

threat it imposes on the individual farmer and grower, it is most encouraging to find a group of growers forging ahead through whole-hearted co-operative action. An outstanding case in point is the Klondyke Garden Co-operative Limited at Grand Bend. . .

in 1954 with 25 original members who purchased shares at \$100.00 each. Additional financing was provided by a Federal Government grant of one-third of the approved cost of the build-loan of 50% repayable over a twenty-year period.

the original 25 to 49 at present. Sales volume has increased from \$222,000 in 1954 to \$424,000 in 1958. Crops handled are onions, potatoes, lettuce, earrots, celery, turnips, radishes, cabbage, cauliflower and a few other products to a small extent, states a writer in The Grower.

The market area for the Cooperative is primarily in the London, Windsor, Chatham, Stratford, Hamilton, Toronto areas but shipments have gone to the Maritimes and as far west es Edmonton and in the U.S. from Maryland to Chicago.

The management of the cooperative is in the capable hands of W. V. Blewett who formerly managed the Thedford Cold

Starting about 1948 these men and others like them started in from scratch to develop the Grand Bend Marsh. With very little capital, a lot of hard work and ingenuity these people have developed the marsh to where they have about 1200 acres in

> dens gives the co-op excellent support. Almost all of the proluce goes out under a voluntary Provincial or Federal Inspection.

The fact that these men so freely ask for certification of their shipments is one big reason for the excellent acceptance of their produce wherever they send it. The inspection staff report excellent co-operation with a very low

Klondyke Gardens Co-operative of members indicated the interest taken by the members in enough members out to conduct the affairs of the annual

The discussions and comments at the annual meeting clearly indicated that the Klondyke growers are confident they can more than hold their own through co-operative action and steadfast adherence to putting out a quality pack.

Perhaps if more farm people would divert more of their attention to doing a job at their own level instead of dissipating their energy worrying about the bogy of vertical intergration, the various elements in the trade channels would find less need to try and integrate producer market-

Horticulture scientists at the Michigan State University are trying out a new way of planting small vegetable seeds that may help farmers cut crop production costs.

Small seeds, like those of letimbedded in plastic strips. These strips are water soluble and wil dissolve in a few hours after planting.

Seeds are imbedded or folded in the strip at the desired intervals. Time and labor needed to thin or block out such crops would then be reduced. Usually with these small seeded crops, the planting rate cannot be precisely controlled and the stand must be thinned after the plants

. . .

Deadly Lightning Nature's Killer

Since dawn, Leslie Mueller and his two brothers had been driving their tractors hard. They had 1,000 open acres to plow and harrow and plant in corn near Deerfield, Mich., and they ignored the mild thunderstorm and the pessing sprinkle of rain, Lesthe passing sprinkle of rain, Leslie's tractor was pulling a four-bettom plow. His younger brother Robert was spreading fertilizer about 800 feet behind him. Oliver, the eldest, had just gone on an errand.

eardrums. Since he entered a hospital, skin burns he man when his clothing caught have been repaired by

graph to trace Mueller's b

tional and non-specific chara-in which both the upper

There were times last most when Mueller's eyes came on rolled aimlessly and closed a

were part of the come and a

was still carried as "poor" on a

hospital records. Continued el

spoken by the young wife, he

husband sprang to his feet.

"You've gone too far," he ex-

claimed angrily. "This is on

last quarrel. I'm going right ou

"Oh, Henry, darling, when are you going?" she cried.

"Where I'll never trouble you

again," he replied as he started to open the door. "Till find a place where wild advanture will

wipe out the memories of t

moment—perhaps in the jung—or on the stormy seas.."

As he spoke he opened t

turned sternly to his frights

ing," he said.

"It's lucky for you it's ra

53 N I A B 54 W Y D 36 S 3 W S

of your life."

tute used an electro

Suddenly Robert felt a strange tingling in his body. Startled, he looked up and saw a puff of blue smoke coming from Leslie who was slumped on the seat of the tractor, his clothes on fire. Robert rushed to get Leslie off the ractor and put out the flames. Leslie Mueller was limp. He had been struck by an unseen bolt of lightning. From that moment eight weeks ago, 32-year-old Leslie Mueller has been in a deep coma at the University of Michigan Medical Center.

Capricious, powerful, and often deadly (it kills an estimated 180 Americans a year), lightning can strike almost anywhere outdoors, in the middle of cities as in the most remote rural areas. Its ominous peculiarity is that it seeks the shortest route between earth and clouds. Trees are among its favorite targets, and when it hits a tree it spills over persons nearby as it did this spring when a bolt killed two children in New York City's Central Park.

Almost invariably, a person who is hit by lightning either lies immediately from hemorrhage or rupture of internal organs, burns, or electric shock, or e recovers in fairly short time. Leslie Mueller is a unique case because he has lingered so long in that shadowland between life and death. Now doctors have a chance to study, in a live patient the human damage which lightning can cause - particularly to the brain and nervous system o

the victim. The bolt that hit Mueller flared

some guides as to whether this method of planting small seeds is practical, from the standpoints o ooth plant growth and cost. No endation of this method is yet being made.

Research plots are being set up at the university's muck soils arm near Bath, at the horticulture farm at East Lansing and in the lettuce producing areas around Imlay City.

ndies-Here's A ture for Shyness Has shyness always been you Has shyness always been your roblem? Do you blush when ou make a faux pas? Are you mbarrassed when singled out in ublic or afraid to go to parties and meet new people because ou can never think of anything The trouble is that you are lways wondering what sort of a effect you are having on other

eople.

"Am I wearing the wrong othes?" you ask yourself. "Did hey see me spill that spot on the clean tablecloth?" First step in your cure is to orget all about yourself and tart being interested in others. Ind out all about them and

on't worry about yourself. changes that may give the for on't worry about yourself.

Study that woman who's the ocal point of an admiring group and decide why she's so attractive. It isn't her looks, though he has made the most of these. It because she's making the cople round her feel important, hat all they say and do matters her. As she listens, her atsign that the young farmer recovering from the coma Meantime, all the medical aperts can do is care for him as wait. Also waiting are his brokers, his wife and three small cilo her. As she listens, her at-ention doesn't stray, and her mile shows that she is enjoying GAME CALLED, WET GROUNDS After a few words, most

You can learn a valuable leson from her. She doesn't talk such herself, but she has taken he trouble to find out some-hing about them all, so that she ning about them all, so that she as ask their opinions on quesons which interest them. They reflattered and the conversaonal ball has been set rolling.

Everyone appreciates a good stener. Later on, you may are the courage to join the dissession. It's easy enough to ask ussion. It's easy enough to ask man how his children are do-

g at school, or a woman wheth-she has come across any good About parties. Before you go, heck your appearance — back nd front—before a full-length airror, and then forget about it. urn up when the party's just

etting into its swing and it's say to mingle. It is no good standing by It is no good standing by courself, feeling lonely, so seek at your hostess, telling her how leased you are to come. She hould introduce you to other uests, but if she doesn't, then in the outskirts of a talkative roup. If you listen, you will ick up clues which will enable ou to make an occasional coment and soon you will be acent and soon you will be ac-

More About Those lastic Bags The \$20 million-a-year plastic

industry embarked last onth on a massive education mpaign with which it hoped save its own life by protectg the lives of children. Faced with a wave of city ate, and Federal legislation at would outlaw ultra-thin ethylene bags because they ve suffocated 54 children since n. 1, the industry anted up 0,000 for an advertising bar ge (aimed by New York's Bat-, Barton, Durstine & Osborn) at will last six weeks, run even

nger if necessary. an daily newspapers, and spot ements on hundreds of stations, warned the pubthat a plastic bag should neve used as a plaything or a covering for cribs rriages, or play pens; that it ould be destroyed immediately serving its intended pur-Beginning this week, the will compare plastic bags other household items ch as electrical appliances and athtubs — that can be lethal

Here is an onion recipe that | then bake. Served with the sour came originally from Southern cream sauce they make a mos Europe, but I think you'll find delightful main dish.

CARNEGIE MEDAL FOR HEROINE - Shirley O'Neill, left, coun-

sellor with a San Francisco children's youth organization,

will receive the Carnegie silver medal for heroism. Her feats

pulling a companion, mortally wounded by a shark off the San

Francisco coast, to shore. With the medal goes a \$750 cash

that it suits Canadian tastes just

6 large onions, 34 pound each

1 inch boiling water in sauce-

1 teaspoon salt
1 tablespoon butter
½ pound ground lean meat
3 siices bread

l teaspoon chopped parsley

1/2 cup soft bread crumbs
1 tablespoon olive or salad oil

Boil onions in 1-inch boiling

water and the 1 teaspoon salt.

Bring to boiling point, uncover-

ed, and boil 5 minutes. Cover and

continue boiling 5 minutes. Re-

in cold water to cook Drain well.

Remove 5 layers from centre,

utes or until tender. Add meat

and cook until the red has dis-

squeeze dry and add to meat and

onion. Stir in parsley, salt, black

pepper, and egg yolks. Stuff into the onions. Place in a buttered

baking dish. Sprinkle with bread

crumbs mixed with olive or salad

til tender. Yield: 6 servings.

. . .

ingredients into custard cups and

labels and pamphlets. William

of the Society of the Plastics In-

dustry, promised the educational

campaign will continue "until

there is not a mother, father,

boy, or girl in this country who

does not know what a plastic

bag is for . . . and what it is not for."

EP-SEA FISH TRAP — Three scientists at Scripps Institute o nography show their invention, a deep-diving fish trap.

e caught and studied for the first time.

claim the trap will enable exotic fish from extreme depth

A clever variant of the ever

appeared. Soak bread in water

chop and saute in butter 3 min-

1/8 teaspoon ground black

2 cup water

pepper

2 egg yolks

VEAL TIMBALES 6 slices side bacon 11/2 pounds minced veal cup coarse soft bread crumbs

1/4 cup finely-chopped onion 2 tablespoons chopped stuffed 1 tablespoon chopped parsley 1 teaspoon salt 1/4 teaspoon pepper 1 slightly-beaten egg

½ cup milk Grease 6 heat-proof custard cups. Preheat oven to 350° F

(moderate). Cut up and fry bacon until crisp; drain bacon from fat. Turn veal into a bowl and break up

with a fork; add and mix in bread crumbs, onion, olives, parsley, salt, pepper and bacon. Combine slightly-beaten egg and milk: add to meat mixture and combine lightly. Fill prepared custard cups, taking care not to pack the meat mixture too firm y. Bake in preheated oven about 30 minutes. Serve with the following Sour Cream Sauce. SOUR CREAM SAUCE

2 tablespoons bacon dripping or shortening 1/4 cup finely-chopped onion 3/4 cup sliced fresh or welldrained canned mushroom 2 tablespoons flour 1/4 teaspoon salt

and mushrooms and fry unti

tender. Add and blend in flour

oil. Bake in a preheated moderate oven (375° F) I hour or un-1/4 pint (11/4 cups) commercial sour cream 1/4 cup water Heat bacon dripping or shortening in a frypan; add onions familiar meat loaf is to spoon the

and salt. Gradually stir in sour cream and water. Cook over low heat stirring constantly, until agents for unguarded children. Working closely with public thoroughly heated. and private agencies such as the Public Health Service and the COCONUT COOKIES National Safety Council, the in-3 squares semi-sweet chocola dustry already has initiated re-1/4 cup peanut butter search projects intended to elim-1 cup sweetened condensed inate any possible hazards, distributed millions of warning

1/4 teaspoon salt aspoon vanilla

11/3 cups (about) tender thin flaked coconut Melt chocolate over hot water, Add peanut butter and stir until smooth. Add milk, salt, vanilla, and coconut. Stir well to thoroughly mix all ingredients. Drog from a teaspoon onto a wellgreased baking sheet. Bake in a noderate over (350° F.) 10 to 12 minutes. Remove from baking sheet while still warm. Makes dozen cookies.

Note: Store in a tightly covered container. DATE SQUARES 1/6 cup butter

1/2 cup icing sugar 1 cup plus 2 tablespoons sifted 1 cup brown sugar, firmly 2 eggs, well beaten 1 teaspoon baking powder 2 cup chopped dates

teaspoon vanilla 11/3 cups (about) flaked coconu Cream butter, gradually add the icing sugar, mixing well. Combine 1 cup of the flour with the creamed mixture. Place mixture in a 9x9x2-inch pan and bake in a moderate oven (350°F.)

Meanwhile add the brown sugar to the eggs, beating con-stantly until mixture is light and fluffy. Then combine the remain ing flour and the baking powder with the egg mixture, Add the dates, mixing well to blend. Fold in the vanilla and coconut. Pour over partially baked shortbread and bake in a moderate oven (350°F.) 30 minutes. Makes & servings.

"It's an error to think of birds as being dumb," says a naturalist. Many of them are smart enough to go south for the win-



honeymoon. "Won't be long, darling," said the bridegroom, after seeing his wife settled in their hotel. "I'll just park the

But it was next morning But it was next morning be-fore he returned, a haggard and frantic figure. He had com-pletely forgotten the name and address of the hotel; and eventually dozed off in the car, while his worried bride spent an an-xious and miserable night alone!

cause to be indignant. Her hus-A bad start for a honeymoon, but other newlyweds have had band spent half the night praising the virtues and attractions of a previous girl friend. Evensimilar unfortunate experiences. When an American couple tually, the angry bride rebelled, bundled the tactless bridewent on their honeymoon the bride insisted on bringing her pet poodle. Her husband didn t groom out of the room and lockmind that so much, but he did object when his bride took the dog to bed with her. "If you the bathroom, emerging next morning cold, miserable and considerably chastened. don't like it, sleep on the floor," she told him curtly. moon one bride met an old

He did - but the marriage was dissolved not long afterwards. "It is obvious," said the judge who tried the case, "that the woman prefers the dog to

Another bridegroom left his bride to unpack. "I'll be up in a few minutes," he whispered, tenderly. Twenty minutes later he climbed the stairs and made his way to what he thought was their room. It was dark, and he couldn't find the light switch. But he could hear somebody breathing in the bed so, undressed quietly, he pulled back the bedclothes.

scream of terror. Realizing that something was wrong the startlreached the door it was flung open, and light streamed in In the doorway stood his

Immediately there was a

are," she snapped, "I'm through with you!" A few hours later — and the next time the three met was in the divorce rourt. Another honeymoon didn't have that result, but it rould

easily have done so. The morning following the wedding, the bride ran home to her mother and, despite her husband's frantin pleas, refused to return. But thirty-five years later they met again - and fell in love for the

second time. Now they are li-ing happily together. she had rushed in from next door. He had entered the wrong bedroom . . . and it took a lot of explaining.

Brides can also make mistake

on their wedding night. When a couple went to register at a

hotel, the over-excited bride seeized the pen first — and signed with her maiden name. That little error took a bit of

smoothing over, too. It was some time before the desk clerk was

Another bride also had good

ed the door. He sought refuge in

During their seaside honey-

flame. She greeted him warm-

ly, and he was equally en-

thhsiastic. Soon they were go-

ing everywhere together, leav-

ing the wretched and fuming

At last he asserted himself,

White-faced, her eyes glitter

ing with rage, the bride tore off

her wedding-ring and hurled it in her husband's face. "If that's

the sort of jealous creature you

and there was a flaming row.

bridegroom on his own.

man and wife.

Mothers-in-law can sometime cause trouble, even between newlyweds. But in one instance this trouble started on the first night of the honeymoon. The bride's mother came too — and firmly insisted that she intended sleeping with her daughter.

"We've always slept together since she was a little girl," she told the astonished groom. "And

That marriage also ended disastrously.

DRIVE WITH CARE



NATO PULL-OUT? - Newsman spots three French cities (X's) where NATO fighter - bomber squadrons are stationed. Gen. Lauris Norstad, NATO commander, has threatened to pull out 200 jets in view of France's refusal to accept U.S. nuclear weapons stockpiles without being given full control over their

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What troubles Dr. Yolles most

about this situation is that doc-

able time with kids who don't

children could be handled just

need a psychiatrist.

If Johnny Can't Read, It could Mean That He Is Headed for a Mental Illness

By JERRY BENNETT NEA Staff Correspondent

Washington - Doctors hope some day to be able to predict whether your child will suffer mental ailment by simply giv-ing the youngster a reading test. And if they know a child is 5,000 Maryland youngsters susceptible to mental illness These kids live in the same

of preventing its occurrence. The idea of using a reading test, a common educational tool, to fight mental disease is being studied by psychiatrists at the U.S. Public Health Service's Institute of Mental Health. It stems from two discoveries which point to a connection between an unstable mind and

trouble in understanding the The first is that juvenile delinquents, many of whom are mentally disturbed, often have trouble reading. The difficulty usually is apparent before a child turns bad.

The second involves a Mental Health Institute study of poor readers who live in a nearby Maryland county. It shows that instead of being scattered throughout the area, these youngsters are clustered in specific neighborhoods. Psychiatrists say this indicates that there might be some unknown factor about life in these com-

munities that triggers the reading difficulties. They explain, however, that before they can spend time Dr. Yolles explains, "I don't think there is more mental illtracking down this unknown villain, they must first make ness among kids today than there was in the past It's just sure that reading disability is a symptom of an impending men-tal affliction. They explain that that we're paying more attention to the problem than we reports which show most dis-

don't prove that most poor readers will turn out to be mentally disturbed or delinquents. To get the answer, a team of

days," he says, "who are not disturbed but disturbing. When you examine them, it's hard to find evidence of a clear cut menspecialists, directed by U.S. Public Health Service psychiatrist Dr. Stanley F. Yolles, is keeping track of the school careers as effectively by social workers and child welfare experts who county where PHS officials mapspecialize in helping problem kids. "Sometimes it's their parped the location of poor read ers. They will be graduated from high school in 1961.

ents who need the treatment," Dr. Yolles says. At that time scores on the He explains that a child's reading tests they have taken troublesome behavior often throughout their school careers will be complared with their bestems from an unhappy situahavior records. If the majority cases, this situation is caused by misguided or neurotic parents. of poor readers are delinquents or have mental afflictions, doctors plan to launch a community investigation in an effort to find and eliminate the hidden cause.

Once the parents are straight-ened out, he explains, the kids usually start to behave. That's why Dr. Yolles and his When applied on a nationwide staff have a clinic rule that parbasis, such action could have a ents always attend psychiatrie sessions with their kids.
"You'd be surprised how much good this can do," he explains. the number of disturbed chil dren. It should give psychiatrists more time to treat patients

"When the family members start talking to each other frankly, whose afflictions stem from other causes. For finding enough they often realize the mistakes they are making. Once this happatients seeking help is one of the biggest problems of psychiastraightened out in a short am-

A PHS estimate of the n Sometimes, however, doctors ber of mentally disturbed kids discover that a child is so conalone who receive hospital care fused or upset that he shou d each year totals more than 270,-000. In addition are unknown These patients usually require numbers who receive therapy in long-term individual sessions. a doctor's office.

It's because of these seriously ill kids that Dr. Yolles believes psychiatrists should develop more therapy short cuts like the family treatment technique. He declares, "We need to devote psychiatric treatment rather than social adjustment."



AFTER SPOTTING POTENTIALLY disturbed child through a reading test, a psychologist could learn the patient's basic problem through such techniques as shown above. The child's reaction to each small figure provides a key to the diagnosis,

rectly below and beside road. CROSSWORD 9. Less complex 10. Fuss church 38, Father 41, Repairs 43, More pleasa 45, Apple seeds 46, Tool for digging post holes 17, Veneration PUZZLE ACROSS 1. A long way 4. Unburnable

SECOND - THOUGHT DEPT.

The "stop" is much better i

formation than the "right turn

only" on this street sign in the Twin Peaks area of San Fran-

eisco. Anyone turning right

would wind up atop houses di-

holes
47. Veneration
48. Noise
49. Beverage
50. Crafty
53. Musical note

Answer elsewhere on this page





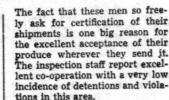
With all the present concern over the dangers of so-called vertical integration and the

This co-operative was started

. . . Membership has climbed from

Most of the members are post-war immigrants from Holland.

Mr. Blewett reports that the membership of Klondyke Gar-



At the annual meeting of the Limited the excellent turn-out their co-op. By contrast some other growers co-ops have re-cently had difficulty getting meeting. . . .

. . .

emerge. John Carew, horticulture specialist in charge of the project, says the study should provide



On the way from field to breadbasket, golden wheat spew from combine spout during full-gear harvesting.



With crop ready and weather ideal, wheat harvesting in the grain belt does not stop after an eight-hour day. This operator continues work long after sundown. The comb bine is equipped with lights for cutting at night.