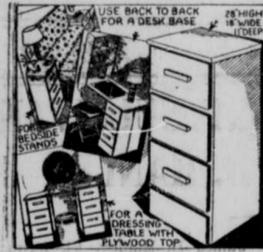


These Useful Chests Are Easy to Make

DOES it surprise you to think of making good-looking useful furniture at home? The secret is to start with something simple. This little chest is ideal. The block front construction of the drawers makes them as easy to



put together as a box, and strong too. The whole piece is made with straight cuts and no difficult joinings.

A chest of this kind is always useful in an odd corner of the bathroom, kitchen or a closet. But, when you have made one, you are sure to want a pair for unit combinations. The desk may be used for a dinette table. Or the dressing table may have a longer top.

NOTE—Pattern 282 gives large cutting diagrams for all parts of this chest of drawers and illustrated step-by-step directions for its construction. A complete list of materials is included. To get Pattern 282, send 15 cents with name and address direct to:

MRS. RUTH WYETH SPEARS
Bedford Hills New York
Drawer 10
Enclose 15 cents for Pattern No. 282.
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Lydia E. Pinkham's VEGETABLE COMPOUND

They 'Beat Plowshares Into Swords'—Workers In a Farm Implement Factory Are Turning Out One of Greatest Fighting Machines of the War

By ELMO SCOTT WATSON

Released by Western Newspaper Union.

WHEN the completed history of our struggle with Japan finally is written, considerable attention should be given the story of how an agricultural implement parts manufacturer—whose products are used every day in every rural section of America, developed one of the most spectacular fighting vehicles of the war.

The company is Ingersoll Steel & Disc division of Borg-Warner corporation. The war weapon engineers designed and that one of its factories manufactures is the Beach-Buster (LVT-3), the very latest development in amphibian invasion tanks.

The Beach-Buster made its combat debut at Okinawa. Its performance met with favor from high navy and marine officers—so much so that space in the history books of the future might as well be reserved now so its story may be told.

To the Japs, the amphibian tanks that have equipped our invasion forces—the LVT-1, the LVT-2, the LVT-4, and now the Beach-Buster, have proved a lethal headache. So, while the record of their wartime usefulness cannot be completed until final victory, a sidelight on their development and manufacture is in order now. It is a recital of which every American, and particularly every farmer, can be proud.

As early as 1933 the problem of designing an amphibian tractor, capable of taking relief deep into the mangrove swamps of the Florida Everglades, was assigned to Donald Roebing, a year-around resident of Clearwater, by his father.

Young Roebing sprang from a line of inventors, his grandfather, Col. Washington Roebing, being the designer of the famous Brooklyn bridge. And he and his father had seen with their own eyes the devastation, human misery and helplessness that had been left in the wake of the 1933 Florida hurricane.

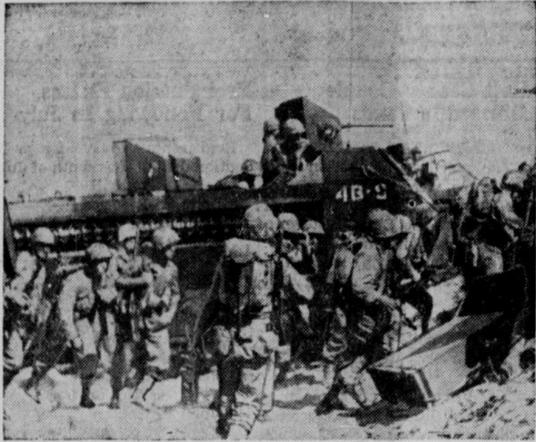
Roebing knew that only a vehicle that operated equally well on land and water could do the job that was needed. For six years he experimented in Clearwater with models. He designed and tested hulls and tractor treads, power plants and gear ratios. And finally, the first Roebing amphibian, the LVT-1 or Alligator, rolled from his machine shop at Clearwater.

That vehicle later was demonstrated to the navy off the Virginia coast at a time when our military forces were occupied in peacetime war maneuvers. British military officials eyed the performance of the LVT-1 with keen interest, for they were already at war.

Early in the fall of 1941, C. S. Davis, president, and Roy C. Ingersoll, vice president of Borg-Warner, were called by the navy to Washington. They agreed to study design and suggest improvements of the Roebing amphibian tank, for even then we were close to war.

The result of that agreement was typically American. Not a marine expert but an automotive engineer, Ben A. Swennes, was charged with responsibility in the job. He began experiments and design in the Borg-Warner laboratories at Rockford, Ill. An Ingersoll factory at Kalamazoo, Mich., contracted to build 50 of the Alligators for the navy. And folks along historic Rock river, which winds through downtown Rockford, began to stay awake nights because of "that fellow Swennes's" strange goings-on!

While Swennes was applying automotive principles to a sea-going job and, as he himself now admits, "incorporating unorthodox designs that



Hitting the beach at Okinawa, these United States marines are unloading machine guns and equipment from a Beach-Buster.

no marine engineer would waste time with," the Ingersoll company began and completed its first "am-track" contract. Meanwhile, such agricultural necessities as heat-treated spring teeth for harrows, cultivators, weeders and rakes continued in production. Later, Ingersoll received a contract to manufacture the LVT-2 on a design supplied by the navy. Hundreds of LVT-2s were manufactured before the often-accelerated contract was completed, ahead of schedule.

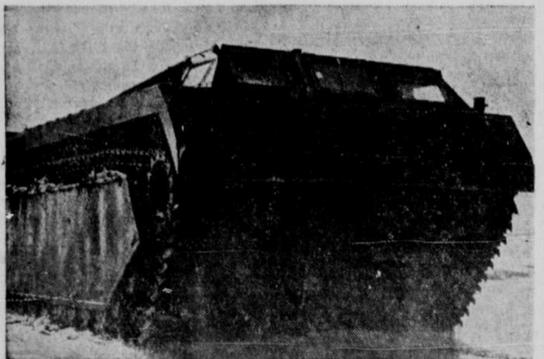
Meanwhile, Swennes had put together an amphibian tank that today, as the Beach-Buster, is reputed to incorporate a greater amount of automotive design than any marine craft that floats. It worked. But before it was presented to the navy's bureau of ships, Swennes, watching tests in Florida, was seized with an inspiration.

Returning hurriedly to Rockford he worked for 48 uninterrupted hours, emerging with the design for a ramp gate which can be raised and lowered at the rear of the "am-track." This single feature is credited with saving hundreds of lives. Using it, our invasion forces unload men, equipment, ammunition or supplies while facing the enemy. An entire tankload of material may be yanked out in a matter of moments. The importance of this is more fully realized when it is known that the Beach-Buster easily handles 10,000 pounds of cargo or 50 men fully equipped.

Danger of stalling in the face of the enemy is avoided by the tank's hydraulic transmission which "feels" for the beach, shifting automatically to the required gear ratio without attention from the driver as soon as the tracks on which it runs encounter any obstacle.

Numerous battle reports have come back from Kalamazoo, to the men and women who make the amtracks, of the prowess of their product. "Tough landings they have made easier. Almost impossible landings, like Tarawa, Saipan and, most recently, Iwo Jima, they have made possible." Rear Adm. C. H. Woodward told them last March when the navy returned, for permanent exhibit, the pilot "Model B" amphibian tank that Swennes had designed at Rockford.

Other facts were revealed by Admiral Woodward: Tarawa proved the LVT absolutely indispensable for successful amphibious attack; that at Saipan the LVTs were stars of the show, sliding over reefs, hitting the beach with guns blazing, plowing through the jungle; and, most amazing, that the LVTs made a surprise 125-mile sweep in a flanking movement around the southern horn of Leyte.



Jap's eye view of a Beach-Buster as it roars ashore in a landing attack.

He Invented a Rolling Disc Blade to Cut Tough Prairie Sod

S. A. Ingersoll, founder of the company, had decided as a farm boy that a sharp rolling disc blade was needed to run ahead of the moldboard on horse-drawn plows to cut the tough prairie sod of his day.

By 1884, he had developed a complete rolling coultter which was widely accepted by farm implement manufacturers. And he opened a factory to manufacture the blades at Sandoval, Ill., where his grain

and lumber business already was established.

It is told of him that in those earlier times, S. A. Ingersoll was a man of many duties. Simultaneously, he was plant manager, workman, salesman, shipping clerk, traffic manager, bookkeeper and treasurer. So that his income might be supplemented and the opportunity for steady employment spread more evenly among his employees, the senior Ingersoll became also a bar-

rel maker, catering to the needs of fruit growers. He built and operated a canning factory.

Twenty years after the business was started, he moved it to Galesburg, Ill. It was there during World War I, supplying necessary parts for farm implements when the plant was completely destroyed by fire. Undismayed, Ingersoll workers continued their production, during a bitter winter, while new walls and roof were built around them.

From Iwo Jima, Maj. Gen. Keller E. Rockey, commanding the fifth marine division, wrote to his friend, Roland D. Doane, Ingersoll sales manager: "Naturally the tail-gate jobs were much more useful, but all of them (LVTs) really saved our bacon in the early days of the show because they were the only vehicle that could negotiate the sand hills leading from the water's edge to the fighting zone."

"So the LVTs carried the beans and bullets directly from the ships to the front line units and carried the wounded on the return trip and they did this for some five or six days before we could get our motor transportation running."

Such reports heartened the Ingersoll workers. But production schedules were upped again and again. In the fall of 1944 additional employees were sorely needed, and Ingersoll officials tried a novel experiment.

Into such typical rural Michigan communities as Paw Paw, Augusta, Vicksburg, Schoolcraft, Decatur and Lawton—10 towns, all told, within a 30-mile radius of Kalamazoo—moved a caravan in whose success the American people had a stake.

The caravan was fashioned around a newly completed Beach-Buster. Accompanying it were navy veterans, including a navy nurse, just home from battle duties. The vets told their stories. And follow-up crews received job applications the next day from those who wanted to join Ingersoll. Many were farmers who had harvested their crops. The caravan idea rates as the spearhead that helped Beach-Buster employment rise at Ingersoll's from a peacetime 300 to more than 1,800 persons.

National recognition of the production record of these workers followed last March 26 when Vox Pop broadcast its regular weekly program from Kalamazoo, interviewed plant employees. It came again on May 21 when the Army-Navy "E" was awarded the Borg-Warner factory.

Ingersoll inaugurated another novelty with free rides on the amphibians as a reward to workers for superior attendance records. The practice interfered not at all with routine as all tanks are "batter tested" on land and one in every 50 is tested on water before they are placed in pairs on flat cars and started westward from Kalamazoo.

With the help of navy engineers, constant tests are being conducted on the amtracks and refinements that are indicated by battle performance added. The headquarters of Ben Swennes has been moved to Kalamazoo and the results of his research are proved daily on lake, land and in swamp.

Co-ordinator of all this activity is R. S. ("Bob") Ingersoll, son of Roy and grandson of the late S. A. Ingersoll, founder of the company. His two uncles, Harold G. and Stephen L. Ingersoll, are directors of the Borg-Warner organization. Harold manages the Ingersoll plant at New Castle, Ind.; Stephen L. established the West Pullman works in 1929.

Beautifully Styled New Prints Bespeak That 'Lovely Lady' Look

By CHERIE NICHOLAS



ALWAYS fascinating, the print story is more so than ever this summer. The current showings of prints seem to have eclipsed all that has gone before.

There's a new elegance being expressed in print frocks that you can tell at a glance are intended for smart dress-up occasions rather than for casual daytime wear. In styling these "lovely lady" prints, designers gave them an important look of sophisticated simplicity. The new slender silhouette deftly achieves a dress-up look through animated little pleums, flaring over narrow skirts. The bustle-bow back, flattering neckline treatments, and other subtle style gestures also impart outstanding distinction.

Often a print is that dramatic and stunning within itself that it is made up as simply as possible so as to give all the glory to the fabric. The gown centered in the illustration is just such. The dramatic butterfly print "makes" this dress and the fact of its utterly simple styling shows supreme artistry on the part of the designer. The wide cap sleeves serve to accentuate the small waist, made smaller by a drawstring at the back. The print is hand-screened and the butterfly motifs are simply gorgeous in their coloring. The material is a spun rayon and cotton woven to look like crash. A cutout wired butterfly of the fabric is poised at one side of the high neckline.

A flair for dark prints is seen in the wide call for black backgrounds with bright florals or other richly colorful patterning. These modish prints include both huge dramatic widely spaced florals and the more conservative small patterned types, the latter making special appeal in

that they are so new-this-year looking.

Ideal for dressy afternoon wear and exquisitely refined in its ladylike styling is the youthful frock shown to the right. It is made of one of the now-so-voguish black background prints, highlighted with multi-colored motifs. It is expertly styled to accentuate a slender silhouette. A pert little peplum adds intrigue to this most flattering little dress-up frock.

Even if one's wardrobe is not extensive, it is a wise plan to keep at least one dressy outfit on hand so as to avoid that frantic last-minute "what to wear" problem, when one is unprepared for an unexpected dress-up date. For summertime charm a cool dark print styled for flattery as pictured to the left will prove an ideal and treasured possession. A dress of this type will be welcome as an addition to any wardrobe because of its chic and charm.

One of the grand things about this dress is that you know it will give good service for the handsome black-with-color sheer print fabric has passed a laboratory test for good wear qualities. Because of the guarantee label in the dress you may be sure that its colorings will retain their original shades and that there will be no seam slippings after repeated cleaning and wearing. Taffeta bows at each side of the dramatic low-cut square neckline add a convincing note of chic. The charming large black hat which milady holds in her hand shows that this beautifully gowned modern knows her fashions, for the wider the brim, the smarter the hat this summer.

Released by Western Newspaper Union.

Sun and Play Dress



In this charming two-piece play-suit neck and midriff are bared to sun and air. The fabric is a soap-and-water waffle pique, the gaily colorful print design carried out in a gorgeous butterfly motif. There's joy and satisfaction in a print like this for you can depend upon it being fast color. The butterfly with its gorgeous coloring and designfulness is a featured theme that is bringing new beauty into the realm of prints this season.

Summer Wash Frocks Intriguingly Styled

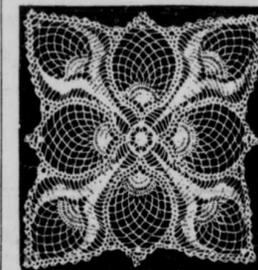
Seldom a season, if ever, when wash frocks have been so intriguingly styled as now. In making up cottons that are lovelier than ever this summer designers are playing up imagination to the 'nth degree. They have succeeded so admirably that a seersucker dress or a gingham goes places as proudly as a silken print or modish crepe. There's all sorts of fetching trimming accents appearing on this season's wash apparel, such as self-fabric bows, embroidered pockets, and most of all just "oodles" of eyelid embroidery in yokes or contrast sleeves or frills that finish off edges in a most flattering way. The theory that two lovely cottons are better than one is seen in perfectly charming gingham or pastel chambray two-piece dress. The skirt of gingham has a jacket of beloved eyelid. The jacket is finished off with a bias binding of the gingham. For final glamour little bows of self-ingham travel all the way from the top of the jacket.

Popular Little Sailors

Have Flattering Ways

No wonder the new little sailor hats are so popular. Their aim seems to be to flatter you and that's exactly what they do. The charm about the newer types is that they are so expertly designed they can be worn straight, back or forward tilt, no matter your age or your hair-do. A favorite straw sailor brought out this season has a telescoped crown, a tiny roll brim which takes on a beguiling veil that ties in the back. It comes in all colors but it is particularly attractive in all white.

Pineapple Square in Doily or a Runner



A LOVELY 11-inch pineapple square that can be used as a separate doily, as a place mat, or three or more squares can be joined together to make a buffet runner or a long dining table centerpiece. Crochet it in either white or ecru thread.

To obtain complete crocheting instructions for the square pineapple runner (Pattern No. 5885), send 16 cents in coin, your name, address and the pattern number.

Due to an unusually large demand and current war conditions, slightly more time is required in filling orders for a few of the most popular pattern numbers. Send your order to:

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530 South Wells St. Chicago 7, Ill.
Enclose 16 cents for Pattern
No. _____
Name _____
Address _____

Japanese Typewriters Have 2,450 Characters

Japanese typewriters are so intricate and cumbersome that they are used, not to compose, but to copy letters and manuscripts, their only speed value being in their production of carbon copies, says Collier's. They contain 2,450 characters—nearly 2,300 Chinese ideographs, 102 Japanese syllable signs, the 52 small and capital letters of the English alphabet and the Arabic numerals.

As even experienced operators have difficulty in finding these characters, a printed guide to their location is supplied with each machine.

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That Nagging Backache

May Warn of Disordered Kidney Action

Modern life with its hurry and worry, irregular habits, improper eating and drinking—its risk of exposure and infection—throws heavy strain on the work of the kidneys. They are apt to become over-taxed and fail to filter excess acid and other impurities from the life-giving blood.

You may suffer nagging backache, headache, dizziness, getting up nights, leg pains, swelling—feel constantly tired, nervous, all worn out. Other signs of kidney or bladder disorder are sometimes burning, scanty or too frequent urination.

Try Doan's Pills. Doan's help the kidneys to pass off harmful excess body waste. They have won more than half a century of public approval. Are recommended by grateful users everywhere. Ask your neighbor!

DOAN'S PILLS