AN INVENTION THAT MAY REVOLUTIONIZE NAVAL WARFARE and MARINE ENGINEERING

STEADY FLOATING STEEL STRUCTURES MADE POSSIBLE BY USE OF ENORMOUS WATER PRESSURE AT A DEPTH IN THE OCEAN TO PROVIDE STATIC RESISTANCE TO WAVE ACTION

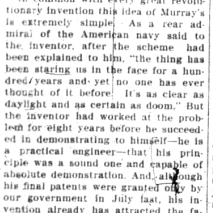
NEW YORK—To dot the coast with floating lighthouses that will be "lampposts of the sea," to have floating fortresses and torpedo stations permanently anchored off all of the coastal cities; to supply harbors with breakwaters of a mobile type; to provide the navy with coaling stations out at sea; to furnish isolated quarantine stations to such ports of entry as have not convenient islands in their harbors; even to establish relay wireless stations far out in the ocean—these are among the possibilities of William Edward Murray's invention of the principle of building what he calls "steady floating steel structures."

It is said by marine authorities that Mr. Murray has solved some of the most difficult problems with which mariners and naval engineers have wrestled without success for years. By applying the Murray principle of steady flotation, it is held, harbor accommodations can be enlarged almost indefinitely at a comparatively low cost; danger signal lights easily can be placed at points on the coast where heretofore lighthouses have been impossible on account of the absence of rock foundations, and last but not least, cities, shipping harbors, arsenals and dockyards can be guarded absolutely from bombardment by a large foreign fleet, at the same time allowing battleships free rein in the conduct of offensive operations instead of keeping them on the defensive close to home.

Idea Is Simplicity Itself.

In common with every great revolutionary invention this idea of Murray's is extremely simple. As a rear admiral of the American navy said to the inventor, after the scheme had been explained to him, "the thing has been staring us in the face for a hundred years and yet no one has ever thought of it before! It's as clear as daylight and as certain as doom." But the inventor had worked at the problem for eight years before he succeeded in demonstrating to himself—he is a practical engineer—that his principle was a sound one and capable of absolute demonstration. And, although his final patents were granted only by our government in July last, his invention already has attracted the favorable attention of engineering authorities both in this country and in Canada, in Great Britain, France and Germany. President Roosevelt is said to be greatly interested in it.

In a few words Mr. Murray has discovered how to keep a floating structure steady and unmoved in the



Steel Torpedo Station.

midst of more or less agitated waters. This is a problem which has faced breakwaters in the creating of a good harbor or the construction of a large railroad and shipping terminal, and in a number of cases these breakwaters, after much time, money and effort had been expended, have been declared insufficient and unsatisfactory. These breakwaters have been built up from the bottom of harbors by the dumping in of enormous quantities of rock at huge cost. The Murray system, it is declared, will do away with this expensive construction entirely. The Murray breakwater is built in sections, each section resembling an inverted vessel, the upturned keel doing the work of breaking the force of the inrolling waves and the great projecting bulk underneath held steadily by the pressure of the water.

Of Value for Lightships.

One of Mr. Murray's chief claims of the value of his invention, however, lies in its application to another, and more picturesque, marine structure—the lightship. As lighthouses are constructed, it is impossible for them to carry a light at a greater height than 20 feet above their decks. In addition, they must always be anchored close to the reef or shoal over which they stand guard, since it is not possible for their crews to handle anchors or cables that would enable them to lie in positions further off shore. Besides this, a lightship not infrequently goes adrift in the buffetings of winter's gales, and so long as the ship is missing or until a relief vessel can take its place the dangerous spot must remain unguarded.

The modern lightship built by the government costs about $115,000, while they are expensive vessels to maintain. It is the contention of the inventor of this new type of floating structure that all of the points of weakness in the present type of lightship would be done away with through the introduction of his model. A circular structure with a flange around its base could be anchored anywhere along the coast and not directly over the reef or shoal to be guarded, but out beyond it, since once anchored there would be no fear of its going adrift in a storm. Heavier anchors and chains than an old-type lightship could carry or handle would make this certain, for one thing, and the principle on which it is constructed would do the rest. Then these floating lights could be built with 80-foot lanterns, instead of the present standard, and crews would be unnecessary, since some of the water ballast compartments, which are used to help in sinking the structures, could be filled with illuminating oil and the fire fed automatically. Filled in the summer time these tanks and lights would need no attention until the next year came around. With such a structure in use the problem of guarding with a warning light a spot like the Diamond shoals, off Hatteras, would be speedily solved. There would be none of the difficulty commonly experienced in building a lighthouse on an almost inaccessible point, as the lightship could be built in harbor and then towed to the point where needed. It is computed that one of these "steady floating" lightships could be built complete for about $10,000.

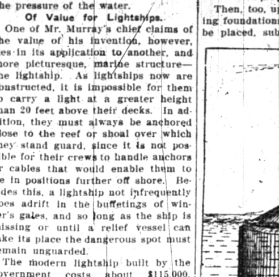
Its Advantage Commercially.

While it is declared the Murray idea can be used to enormous advantage commercially, it is its protective features, as applied to coast defense, that have aroused most interest in other quarters. War and navy department officials have been interested especially in the steady floating fortresses and torpedo stations designed by Mr. Murray. On the great steel caissons submerged in the quiet depths of the ocean is built a special annular revolving deck, fully equipped with guns. Now the turret of a battleship is necessarily limited by the size of the ship's deck and its arc of fire is restricted, but on the Murray fortress there need be no restriction as to size or the number of guns. Again battleship gunners are more or less hampered by the rolling and tossing of the vessel, which makes good aim an uncertain proposition, but on a steady floating structure guns could be pointed with mathematical accuracy. No enemy's attacking fleet would have chance against an array of these immobile fortresses. While their gunners were waiting for their vessels to roll so as to bring their guns to bear, they would be withered by a fire of deadly aim from a deck as solid as if mounted upon a rock. A fleet running up against these floating fortresses placed several miles outside a city would be destroyed before it got even within striking distance of the city itself.

In addition, a fleet of battleships before a line of these steady floating fortresses would be like so many eggs pitted against a solid cannon ball. The armor plating on the fortresses can be made of indefinite thickness, and its domed surface would deflect a striking shell off into the harmless air.

Impregnable Defense.

Then, too, upon the solid steel floating foundations torpedo stations could be placed, submerged and totally invisible, and the steady platform from which the torpedoes were fired would make the aim of the men behind certain and true. These fortresses and torpedo stations could be protected from torpedo boats and even submarine boats by heavy barriers of steel netting surrounding each. Then, with fields of mines laid between, the utter destruction of any attacking fleet would be certain.



MURRAY STEADY-FLOATING LIGHTHOUSE

Any coast, too, lined with these steady floating fortresses could consider itself amply protected, and would need no fleet of battleships tied close to home. All ocean-going vessels of war could be permitted to roam about and enter upon offensive operations wherever desired. The floating fortresses would have little machinery or other mechanism to bother with, and only enough men to serve the guns would be required.

If Mr. Murray's inventions are adopted by the government, the problem of providing a large number of battleships for the defense of the coast and the protection of outlying islands belonging to Uncle Sam will become less pressing. The island possessions of the United States will be consolidated safe, guarded by a cordon of floating fortresses, and the general adoption of them along the American coast is apt to change the European viewpoint to a considerable extent. No foreign nation will be eager to rush into a fight with so well protected a country as the United States.

The inventor of this new system of marine construction is an American engineer, a Californian by birth, and of Scotch descent. It is asserted by marine authorities that his discovery means a definite step forward in the world's progress and that his inventions are the most momentous since the substitution of steel for wood in naval construction.

FORTRESS AND ANNULAR-REVOLVING GUN PLATFORM

A Successful Life.

A successful life is rather hard to define, for the definition varies at different times and under different conditions, and yet in the midst of this material age there has dwelt a successful woman. She has not large means, she is dependent upon her own labor, and she lives a simple, retired life; she is totally blind, and yet the question whether there are many who in present peace of mind, and exalted vision of faith, have attained unto all that is desirable in life so nearly as Fanny Crosby, the hymn writer, who at 88 years of age reigns queen of human happiness.—Universalist Leader.

Owns Much British Land.

The marquis of Stafford, who is in his twentieth year, is heir to the most extensive domain, if not the largest rent roll, enjoyed by any subject of King Edward. More than 1,000,000 acres in England and Scotland are under the lordship of his father, the duke of Sutherland, while the marquis of Breadalbane, who is probably the next largest proprietor in the kingdom, does not own half that amount of land.

PASSING OF THE "RAZORBACK."

"Mast Hog" the Name of an Improved Type of Western Swine.

"Progress in the stock industry has asserted itself so strongly that the razorback hog of Arkansas and Oklahoma is rapidly becoming a thing of the past," a dealer at the stockyards said to a Kansas City Star man. The hogs of Arkansas and Oklahoma until the last ten years were so wild that it was almost impossible to corral a full carload of them at one time. They preferred acorns to corn.

"By introducing new breeds of hogs into those states the old razorback type has been modified into a much broader, shorter and stockier animal—one that knows what to do with corn. The name of the new type of swine is 'mast hog.' It comes from the fact that the animals at first sustain themselves on acorns, the barks and roots of trees and shrubs. They are 'topped off' with corn before they are sent to market."

About 3,000 of the "mast hogs" were marketed in Kansas City in the last week. Their average weight was 140 to 175 pounds and a rule they brought 50 cents a hundred pounds under the prevailing market prices. The rule of the packers on razorback hogs used to be to pay one dollar a hundred pounds less than for native hogs.

"It is reasonable to expect," the dealer continued, "from the progress made with the undesirable razorback type in ten years that in five years more the wooded districts of Arkansas, Oklahoma and southern Missouri will have a very desirable commercial hog."

Lung Capacity.

The normal capacity of the lungs of the average man is 230 cubic inches; 100 of these contain what is called residual air, 100 are complemental air and the remaining 30 represent the tidal air—the ebb and flow of breathing. By a deep respiration it would be possible to get 100 cubic inches more. The average man breathes from 15 to 17 times a minute, and in 24 hours his inspiration and expiration would fill a balloon of 850 cubic feet capacity.

SUNSHINE IN THE HOUSEHOLD.

Children Keep One from Becoming Selfish and Are a Joy.

The woman who has no children never knows the greater joy of devotion. Her sympathies, instead of extending themselves, will narrow more and more and tend to concentrate themselves upon the merely pleasurable experiences and sensations which only lead souls about in their own labrynthine domain. She may win personal distinction and high fame. She may surely deserve them, but she will be in danger of following the false way which begins and ends in self, says Julia Ward Howe, in the Delineator. If the fates deny her marriage or leave it bare of offspring, let her win to her arms some motherless child and study the lesson taught by the dear Christ when He placed a child before His disciples and bade them learn from Him the great science of life.

The beauty of childhood is not easily overestimated—the mobile countenance, the flexible muscles, the fair, smooth forehead, the unconscious grace of movement. What a lovely presence is this! It illuminates your whole house. It is a novel or a palace. The babe newly born, so fine, so soft, so tender! By degrees it enters into possession of its bodily powers. Soon he follows her about, walks beside her, begins to question her regarding the meaning of all that he sees. He learns to pray at her knee. He goes to school. All the way from infancy to adolescence is strewn with flowers. It has no doubt an off set of anxieties and cares, but would any of us dream of giving up the rose because of its thorns?

Their Double-Bedded Room.

At Nice two travelers arrive at a hotel and having ordered a double-bedded chamber go out to take a stroll. When they return to the hotel the fair chambermaid lights them to their door, and, with a bewitching courtesy, says: "Here is your double-bedded room, gentlemen. One of the beds is occupied by two other guests, so you will have to sleep together. Good-night."

Real Estate Exchange

Of WHITEHEAD & MITCHELL

Exchange Bank, Birmingham, Mich.

The following is a partial list of Farms, City and Village Lots, and Real Estate generally which we have for sale. As our list is constantly changing, we request that parties will write us if they do not see what they want in this list.

5.

Elegant house and lot 66 feet front and 20 rods deep on Maple Ave. East, (half an acre). Fine house and every modern convenience. Furnace bath, closet, etc. Can be bought for what the building cost. Will exchange for improved city property for portion of the purchase price.

65

Village lots on Woodward avenue bounded north by lands of Mollie G. Smith, east by D. G. H. & M. R'y, south by Lincoln avenue and Woodward avenue, 165 feet front on Woodward avenue, 198 feet deep on Lincoln and 66 feet on southside; all in the Village of Birmingham, Mich. One of the finest building sites in the village.

66

Good, comfortable, cozy, old-fashioned house with 90 feet front on Martin Street. Fine location, plenty of room, and the price is only $1,200.

77

One cut on Saginaw street, just south of land owned by John Germain, so feet frontage. Anyone wishing to purchase a village lot will find this a bargain. For particulars inquire of Mollie G. Smith or at the Exchange Bank.

103

Eighty-acre farm in White Lake township, W ¼ of S ½ of section 32; 70 acres cleared, 10 acres timber and huckleberry marsh. Good, level land; this swamp netted the owner over $150.00 last season. Three acres of good orchard, house of 7 rooms, good neighborhood; 4½ miles from Milford, 8 miles from Commerce; proposed electric road comes within a mile of the house. Price, $2,000.

114

Fine farm in the Township of Southfield; 80 acres, 40 rods from Telegraph road; house in good maple timber. Two acres of orchard; building worth $1,000, and this property actually fine place can be bought for $3,000. Nuf ced.

125

Vacant lots 16, 17, 18 of Willson's Sub-division, Royal Oak village; one-tenth of price. Six cents. Terms easy, with small payment down.

147

Nice little home for someone of small means (15 across E and W of S ½ of sec. 34, township of Troy; house 7 rooms; barn 24 feet square; well at back barn and house, never dry; ¼ mile east of Rochester Electric; fare for family, 10 cents. All cash and no grumbling will buy it at $750. Hurry up!

No. 167

Wants to trade for 30 or 80 acres on or near electric. Ninety-four acres on east ¼ of southwest ¼ of section 11, Troy township; three buildings valued at $8,000 (insured for $7,700); flowing well piped to barn; farm well adapted for stock or dairy; 1¼ miles from electric at Troy Corners. Fare 10c to Detroit; $60 per acre.

No. 171

Finest building site between Birmingham and Pontiac, on electric railway, just north of Birmingham, among the country homes of such men as Joseph N. Barker, Endicott Brake, Frank Conklin, and others; 41 acres, nearly half of which is timber, and pretty little branch of water flowing through it; house and barn; well with giant elms and oaks overhanging. No buildings; good drainage. Size-chard of 4 acres. Price is high, but if you have the cream you must expect to pay for it.

178

Seven-room cottage on west side of Bates street, 42 feet front, 120 feet deep. You couldn't build the house for $1,200. Will exchange for Detroit City water, wood shed, cellar, all ordinary conveniences. This is the best bargain we have. Show it to you any time.

180

Farm in Avon township; 55 acres of good clay loam, all cleared; small orchard, no buildings; small amount down. For sale or exchange for small farm.

185

Corner lot, 100 feet front on Maple avenue 120 feet deep; one good building, insured; plenty of small fruit. A bargain for $2,000, one-half cash down.

187

House and lot, in Campbell Subdivision, Birmingham; buildings insured. Come in and ask the price, and let us surprise you.

188

One of the best-arranged and finest-equipped residences in the village. Lot 66 feet front, best location—East Maple Avenue, two blocks from electric road; bath, toilet, hot and cold water, city gas, 10 rooms, 2 stories; rents for $25 per month; 8 buildings, fine orchard; 112 feet on Maple, 320 feet deep; plenty of room for chickens and garden; good barn, fine workshop — Say! What else do you want, anyhow? Will sell house and 52 feet front by 150 feet deep for $2,800. One of our best bargains.

193

Thirty-five-acre fruit farm, 1¼ miles north of Birmingham, on the town line; 6 buildings, insured for $1,800. All kinds of soil—clay, gravel, sand and dark loam. Last year this farm produced 125 bushels raspberries, 20 bushels blackberries, 111 bushels strawberries, 12 tons hay, etc. A gravel ridge 60 rods in length, with an almost inexhaustible supply of gravel. Will exchange for the price of the farm alone. No waste land and under a high state of cultivation. Worth looking at anyhow. Price $5,000; terms easy.

194

Fifty acres in Township of Troy, adjoining the Troy Stock Farm; 8 buildings, good house, basement barn, plenty of small fruit, orchard of extra-select apples. Fare from Flint Division D. U. R. 2 miles and fine spring. Price $4,000.

195

Fifteen acres in Township of Royal Oak; no buildings; small grove of maples in a pretty corner; near land, well drained; fine, sandy, loamy soil; corner of the 9¼-mile road and Campbell road, ¼ mile east of electric road; Adjoins J. L. Hudson and Duffield tracts, which are held at $500.00 per acre; 1¼ miles north of State Fair grounds. Price $200 per acre; will exchange for Detroit property.

196

Six acres, part of s w ¼ of n w ¼ of section 24, Troy township; near Troy Corners; soil, sandy loam, fine flowing well; 2 miles east of Flint electric road; 7½ miles from Big Beaver; good farm for somebody. Price $625.

198

Two acres 1 mile east of Royal Oak village on cedar land, 40 fine apple trees, 10 small trees. Price $1,200. The place is well fenced, and the owner is willing you to build the kind of house you may require.

200

One hundred and twenty-six acres near Birmingham; good buildings, well fenced, fine orchard, flowing well; pretty little River Rouge runs through the farm; ¾ mile from Birmingham. Worth looking at. Take you to see it any day. Oh, yes; the price is $12,000, and the terms easy. Farms now selling in this have sold within the past year, in the immediate vicinity, for $120 per acre. Let us take you to see it. It will please you, and if you don't buy we won't grumble.

201

Fine 2-story residence on Maple Avenue, corner of High Street; 66 feet front; 165 feet deep; hot water heater, hot and cold bath, toilet, city gas, city water; every convenience found in the finest class of city residences. Cement walk (cost $300), and best neighborhood in town. House would cost at least $6,000 to build now, and we will not build it for less and see what they say. You can buy this beautiful home for $5,000, and have your own way about payments. Ask the man at the bank.

203

Forty acres on the line of the Flint electric, at Harris Corners, in Troy township. Rolling, sandy soil, clay subsoil, no waste. One of the prettiest locations for building a nice country residence. The place is well fenced, has a good orchard, and the offer of $2,000 cash, and we will see what we can do for you.

208

Five acres and 4 good buildings, making a nice little home near the little Village of Southfield, Seven miles from Detroit, on electric road. The buildings cost more to build than the price asked for the land. Terms easy. Fare 10c. Only $400 is the price is $1,000, and $600 cash will take care of it, and the balance you can pay at your leisure.

209

Fine home with good barn on Townsend Street. Good 5-story house, plenty of fruit, beautiful surroundings. Would make a splendid country residence. Would cost $7,000 to build now. Price asked, $4,500 will buy it if you take it right off the bat. Owner is leaving town, and must sell at once.

211

Just an acre of land. Never read that book that says no popular? Well, you're not, anyhow. You're not wanted. There's a house on it, and a good one, too. It's a dandy. Has 6 rooms, is finished in oak, has hardwood floors and mantels, and is a bargain. Price $1,600. Take you to see it any old time at all.

212

The premises 4 ornately owned and occupied by Mate G. C. Gibbs in the Township of Troy, Oakland county, Mich., is situated on the south side of the road with 20 acres of land can be bought for $2,000 if desired. Seventy acres on the north side of the road, with barns and all other necessary buildings. Located exceptionally fine for those from electric line—Flint Division D. U. R. After you take out the cost of the house and buildings the price we ask would bring you the land for about $40 per acre. Take you to see it any time.

213

Fine little farm of about 75 acres in Royal Oak on the line of the Rochester Electric, 2 miles north of Royal Oak; fare to Detroit, 15c; good orchard, well 210 feet deep; good pure water; 1-acre bearing apple orchard; 3 buildings, insured for $1,000, and $4,000 will buy it, subject to a small mortgage which can run at the pleasure. Will exchange for improved Detroit city property.

215

Decidedly the prettiest lake farm in this county of lakes. Situated on Wing Lake, noted for its excellent fishing; 4 miles west of Birmingham; 18-minute ride from Detroit; 80 acres, all practically farms; fences in good shape; 2 acres of young peaches, 4 acres bearing; peach, and 4 acres apple orchard, which bore 700 bushels of apples the past year. One mile north of Franklin village. Daily mail and telephone service. Abundance of excellent water pumped by windmill and piped to house and other buildings. Eighty acres and the price is $7,000; if you will let us take you to see it and you say it isn't worth the money, we'll pay you for a ride on the lake, catch you a nice string of pan fish, and then you'll give us twice the money, and it's worth it, too. Try it.

216

A new, modern dwelling, constructed by a well-known builder for his own use, on Woodward avenue, blocks, hollow walls, 2 stories high, in one of the best locations for our village; lot 66x120 feet; 12 large apple trees; bath, water-closet; hot and cold water, gas and electric lights. The house is handsomely finished in hard wood, large rooms, large closets, etc. Price $3,800. Let us show it to you any day—any time.

217

Farm of 39 acres on Section 1, Troy; 8 buildings; 4 acres beech and maple timber; 4 acres plowland; 3 acres orchard; 7½ miles from Rochester line D. U. R. Can be bought for $2,200, and that's only a little over $60 per acre. $1,000 cash will buy it, with the balance on long time, at low rate of interest. Seems as if that ought to interest almost anyone.

219

Tidy little place for some one with moderate income. Corner Chestnut and Palm, Campbell Addition. Lot worth at least $500, and the house is insured for $1,200; that's $1,700, and prices are advancing all along the lines in that location. If you come right away we will consider an offer of $1,500, and if that is too high after we have seen you over the premises, we will introduce you to the owner, and you can make your own terms. That's fair.

222

Two-story tenement or terrace, on the east side of Woodward Avenue. Two distinct 2-story houses of 8 rooms each. Bath, hot and cold water, bath, hot and cold water, city water and gas; each independent of the other apartment. Rents for $12 per month each. Forty dollars per year will pay all taxes and insurance. Good barn on the premises, and the lot is 66 feet front and one of the best fronts are on Woodward, and 165 feet deep; room for a dozen houses of 8 rooms each. Will exchange for a steady income from the other. This is something to look under every rock for. Come and see us. Always at your service. If you can't call, write.

227

Five acres just outside of the corporation limits of Birmingham, about 19 rods from the village of Ward Avenue, on the Pontiac electric line; one acre in fruit; 4-room house, and shop, with nice little creek (branch of the River Rouge) running through the premises. Finest location in the county for a nice little chicken farm. No buildings, but can be bought cheap enough so that you can afford to build yourself a home. One of the finest home among the many in the Bloomfield Hills district. Total cost required will bring price and all particulars. Rather show it to you, though.

229

A pleasant and sightly farm of 71 acres in Woodward, 1¼ miles from Birmingham village; 19 rods from village; 3 acres orchard, 4 acres good timber, 8 buildings worth $6,000, and the price is $8,500—and it is well worth it. Soil sandy loam and clay loam, under this state of cultivation. Better investigate.

230

Seventy-one-acre farm in Troy, adjoining the village of Troy. Fine buildings, well fenced, well watered; branch of River Rouge runs through the farm—never dry; 15 mile from electric line; 5 acres of orchard, 3 acres timber; house 30x36, two good wells, and $6,000 will buy it. Worth $7,000 if it is worth a cent. This is one of the most desirable farms in the Township of Troy, and that's one of the finest townships in the world. Nuf said. Will exchange for lots. Tell you if let us.

231

Two-story, 7-room house in good repair; well drained; cellar, fruit, etc. Money would cost more than $2,000 to build—and that's all we ask for it. Opposite Methodist House, between Merritt and Marshall, on Chester Street. Terms easy.

232

Farm of 37½ acres, just outside the Village of Birmingham, on the D. U. R. electric line; 15c fare to Detroit, half-hour service; land all cleared; two acres; four buildings, all in good condition. Best open location between Detroit and Pontiac.

233

Farm of 107 acres, one hour's ride from City Hall on 24 of Jefferson Avenue, 1,000 feet on State; 7 acres of apple orchard; splendid buildings. The price is very low.

234

Farm of 77 acres, 60 rods from D. & F. electric line. All cleared; good buildings; 16 fare to Detroit. This farm can be purchased very cheap.

236

Forty-six acres, all improved, no buildings, good land, well fenced, flowing stream through the place. Worth the money, for a little over $50 per acre will buy it.

237

Four vacant lots in the Randall Addition. Excellent building places in a rapidly improving part of the village. If you want to buy one of these lots for $100 cash you can do as well than if you want to build a house on it and are lacking in funds, come and see us about it and we will make arrangements at low rates and easy terms.

238

Vacant lot on Woodward Avenue, on street car line, 50 feet front and 132 deep. One of the best building places on the most popular street in the village, and—$300 will buy it for cash. Want to build on it and don't happen to have the cash? Come and see us about it, and we can arrange matters. Come and see us anyhow.

239

Vacant lot in Castle's Plat; price $300, and will exchange for Detroit vacant.

240

Small house with lot 80x150, $1,000 cash. Large lot 66x168 and all ordinary conveniences for $2,200, or will sell the whole outfit, both houses and one acre of land, on south side of Maple Avenue, for $3,800.

241

Fine new house with all modern conveniences, within 300 feet of the west side of Woodward Avenue; 8 rooms, hard-wood finish; lot 66x190; pretty little River Rouge through the rear of the lot. Price for $3,000, and that's all we ask for the premises. Well worth looking at.

243

Farm of 160 acres, Saginaw county, 2 miles from a good railroad town; 100 acres under loam, good buildings valued at $5,000, and $8,000 will buy the whole thing. Worth at least $7,500, and have to wait within 2 miles of active coal mines, and there is a rich coal deposit under a portion of the farm. Coal Cleansing; 16 miles to Owosso; 21 miles to St. Charles and 22 miles to Saginaw. Well drained, good fences, and altogether worth the money.

244

If you could buy an acre and a quarter of land with a brick house equipped with hot and cold water, bath, water closet, furnace, and every possible convenience, with cement walks—and plenty of fruit, and cement walks—and the house alone cost $6,000—for $2,000 on easy terms, you'd call it a snap, wouldn't you? Well, we can do it. Come on and we'll show you.

245

Lot 7, Block 1, of Campbell's Subdivision, Village of Birmingham, Mich., on the corner of High Street and Forest Avenue. Without doubt the most desirable building location offered in the very popular subdivision. Price $650; but there is a mortgage of $500 on it, which can run for five years. Come and let us take you to see the property.

246

One hundred and twenty-seven acres in the township of Avon, Rochester county, 1¼ miles from Rochester, 2 acres of orchard; well watered by never-failing river runs throughout farm; no waste land; 70 acres cleared, 3 acres in wood, 40 acres timber; 2 good houses, 2 barns in good repair, well fenced, 2 miles from electric road; 30 minutes' ride from Detroit; 60 minutes' ride from Pontiac. Will trade for a smaller farm or for city property. Will exchange for Detroit property. Will sell for $12,000 cash. Take you to see it any old time at all.

247

House, barn, and about an acre of good garden land on north side of Sunset Street, old-fashioned house, and a cozy home at a low price. Fare 10c to Detroit. Just decided to go West and wants to sell badly enough to make a decided sacrifice. Let the man at the bank talk to you.

248

Comfortable house, nearly new, in good location in Whitehead & Mitchell's Subdivision. House would cost most people $1,800 to build this week or minute; and we only ask $1,000 for the house and lots, 50x132. There is a mortgage of $500 which can run. The building is insured for $700. Owner lives in Detroit and wants to sell.

249

Nice, warm, old-fashioned house on the south side of Maple Avenue, among the best class of residences in the village. Plenty of room for a good garden, and it can be bought for $1,500. Why not? Well, just come and talk it over with us; and after you have seen the premises over you will make us an offer anyhow.

250

Now, here is a "Beaner!" House, barn and chicken house, with two acres of land on westerly side of Woodward, opposite Electric Park, known as "Elmcrest." Ten rooms, bath, toilet, two chicken houses, 2 barns, 2 sheds, hot-air furnace, two grates and mantels, one of the best-arranged of the buildings in the village, city water, dening, fine shade trees and shrubbery; house would cost $6,000 for $4,000. $3,500 cash will buy it, and the balance of payments to suit you. Take you to see it and see the rate of interest. Without exception, this is the finest house and lot for the money left on the market, and the price is right.

251

House and lot in Campbell's Subdivision; corner lot, 66 feet front, 165 feet deep; house has bath and cistern water in the kitchen, fine rewards on front and side; fruit and shade; peaches, pears, crab apples—all bearing—and some smaller fruit. Lot will buy it, and terms can be made so that it won't take a multi-native to handle it. Come on.

252

Eight acres of land in Newaygo county, Michigan, 2½ miles from village; sandy soil; timber, 3 acres oak timber; price $5 per acre. Won't cut anything off. Terms cash. Are ready to answer all questions you may ask, wise or otherwise.

253

Two hundred acres of sand and sandy loam, 40 acres of which is timber, 4 acres of fruit; two buildings of little value. Price $10 per acre. Is in the Township of Big Prairie, County of Newaygo. And then we have 440 acres more. In the same township, with 2 buildings, 2½ acres of orchard and 160 acres of mixed timber, all at $10 per acre. We'll just dare you to dig into this proposition—and you know what that sort of thing means—if you're afraid of any "feller" that wouldn't "take a dare."

254

Eighty acres in the Township of Southfield, being the west ½ of the southeast ¼ of section 16. Part of the old Big Prairie farm. Not much, but enough to convince any one that there is no better land in the Avon Township of Southfield. Well, now; this land must be sold before the coming summer; and the proceeds will be for the care and support of the owner. If you want a good farm with house, barn, etc., in good repair, at a price which will cause you to rub your eyes and smile when we tell you, just call at the bank and ask the man.

255

One-hundred-acre farm in Royal Oak township, a mile west of Starr Station on Rochester line D. U. R.; 8-room house, small house, 2 barns, cow shed, cozy spring water to all buildings; natural gas well supplies heat and light to all buildings; been running for 18 years; 7 good buildings, fine orchard, farm well fenced; new off road; one mile from front; good roads, good neighborhood. Will exchange for Detroit improved property.

256

Eight-room house, good barn and two acres of excellent land on west side of Southfield Avenue, in the Village of Birmingham; one of the best-equipped and tidiest homes in the village. Buildings need repainting, but in good shape (house is practically new), and the whole outfit can be bought for just a trifle more than that. Enough to secure it will get it, and we can make you have your own way about payments on balance.

257

Just what everybody wants! Don't wait a minute or you'll lose it. Five acres and barn, with 8 other good buildings, all nearly new, an acre of good fruit; 8-room house, all modern conveniences for $2,900; 11 acres of excellent land, ¼ mile from Flint Electric road, 16 fare from Detroit. Price $8,500; terms easy. Half mile from school, church and stores. Take you to see it any old time.

JACK THE OLDEST DOG ALIVE.

He Was Born Nineteen Years Ago, But Refuses to Think of Dying.

Jack, a mongrel terrier, but a breed worth while, has been so used to fighting all his life that he will not die. Not he; he refuses to think of it, says the Boston Globe.

His father was a cross between an Irish terrier and a skye terrier and his mother a smooth-haired fox terrier. Glorious combination, a terrier of the terriers. He was born in Newton Lower Falls in March, 1889.

Bought for Baby.

His owner, to keep the peace in the family of Noah A. Plympton of Wellesley Hills, said that he had brought him home for the baby. On those terms and on those alone was he admitted to the household, which has ruled since to such an extent that the members are grateful that he does not know about the discussion which so nearly kept him from the place where he belonged.

Faithful, affectionate, good to look at, with his expressive eyes and shaggy hair, intelligent to a degree, good-tempered, though quick to resent an insult like the accident of having moved one's foot anywhere near him, Jack has been a cheering companion and a devoted friend.

And Jack has had the unique honor of being present at a Wellesley college function, to which no man ever has been admitted. He came home decked out with ribbons.

Clearly Complimentary.

A writer whose Christmas money perhaps ran short, and who is obviously trying to comfort himself with the thought that "her" birthday is yet to come, remarks that "the one kind of gift always acceptable to a woman is something, anything, in cut glass." It is a wise saying, and one to be explained on the principle that like attracts like. She, like cut glass, reveals new beauties the longer one studies her.—Elsinore Press.

Ins and Outs.

"What's that noise?" asked the visitor in the apartment house.

"Probably some one in the dentist's apartment on the floor below getting a tooth out."

"But this seemed to come from the floor above."

"Ah! then it's probably the Popleys' baby getting a tooth in."

The Reason.

As Darwin was walking along the golden streets he came face to face with our first parent, who frowned and passed on. When the latter was asked why he cut Darwin, he explained: "It's the cuss who tried to make a monkey of me."—Detroit News-Tribune.