The Vanishing Fleets

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ILLUSTRATED BY A. WEIL

SYNOPSIS.

"Vanishing Fleets," a story of "what might have happened," opens in Washington with the United States and Japan on the verge of war. Gen. Hillier, secretary of the British embassy, and Miss Norma Roberts, chief aide of Inventor Roberts, are introduced, as lovers. Japan declares war and takes the Philippines. Hillier starts for England. Norma Roberts with military officers also leaves Washington on mysterious expedition to the Florida coast. Hawaii is captured by the Japs. All ports are closed. Scores of missing Japanese fleet and whole world becomes convinced that United States has some powerful warship agency. England decides to send a fleet to American waters as a Canadian protection against what the British suppose is a terrible submarine. Hillier is also sent to Canada to attempt to force his way through American lines with messages. Britishfleet departs amid misgivings of English. Fleet mysteriously disappears. Hillier makes a forlorn effort to deliver message to the president. War between Great Britain and Germany is threatened. The kaiser disappears. King Edward of England is confronted by Admiral Bevins of the United States, and upon promising to present the case of the British admiral, the monarch agrees to accompany Bevins on tour, which the latter says will uncover the secret of the war and end all conflicts. The Dreadnaught Slagend of England is wrecked in the discovered at an impassable point in the Thames, much to the mystery of the kingdom. The story goes back to a time many months before the war breaks out and Inventor Roberts visits the president and cabinet, telling of and exhibiting a metal production. This overcomes objection when electrified and is to be applied to vessels to increase speed to over 60 miles an hour. A city for the manufacture of the mysterious discovery is built up on the coast of Florida and Norma Roberts arrives on scene.

CHAPTER XV.

The Great Discovery.

From the shore came a dull, moaning sound, now rising, now falling, but incessant, as if some gigantic animal, stricken and suffering, was shrieking the anguish of its death throes to the solitudes of the keys and the waste of waters round them. The frightened birds took flight to the north to escape the weird monotone, and the timid animals of the forest cowered in fear; but the men of the island looked at one another exultantly, with mutual congratulations on the rapidity of their work. The blast furnace which was to cast the plates was being blown in.

Days and nights of unremitting toil had followed that first landing; machine shops had been completely installed, power plants perfected, and buildings for the men erected; additional supplies had been received, and another gunboat, the Columbia, augmented the patrol which passed ceaselessly round the keys, guarding their secret and warning inquisitive fishermen to avoid the waters; corps of expert smelting men from the fulness of the west had joined the colony—and all for this, the casting of the first plate, which was to take place this day.

In the assay rooms there had been the constant testing of crude metals, and apportioning them and discarding those which were inferior. Trained hands were those that worked over the bucking boards and manipulated the delicate scales which would register the tiniest mark of a lead pencil with as great accuracy as they would a pound weight. Everywhere about the plant were men who wrought with precision and interest, bound together in the great enterprise until differences in station were forgotten and all were as a family praying for success.

"Bill Bill" Roberts, assisted by his daughter, had permitted no one but theirs to enter the room where his apparatus was installed, and no hand but theirs to touch its complicated mechanism. With the love of a creator he had spent the last hours fondling its cold, unresponsive parts and adjusting it, and then stood and watched, as a mother watches her firstborn, the initial movements of the great masterpiece which was a mystery to all the world but him and Norma.

Engineers and officers from all parts of the plant, warned that the crucial test was at hand, gathered round the door of the innermost room, until invited in by the inventor, and then slowly entered and found standing places at a safe distance from the intricate mass, whose polished knobs, twisted bars and gleaming tubes seemed to them a tangled riddle. Norma, garbed in the stained khaki wrapper which she wore in the laboratory at home, hovered here and there round the apparatus, lightening an adjustment or closely inspecting a joint, her face grave, calm, and self-possessed. Her father, his thin old face drawn into a scowl of concentration, busied himself likewise, and made the final connections. So careful was he that he even inspected the duplicate apparatus which stood as a reserve at the other end of a casting mold, but which it was not his intention to use except in case of emergency. Satisfied that all was in readiness, he beckoned to two assistants, who trundled in the first, composite plate and deposited it in its bed. He made the connection with the electrodes in a few minutes' deft work, and then straightened up and looked about the room, where all was still and expectant.

The wondering engineers saw him wave his daughter back a short distance as though fearing for her safety, watched him take a final look over his appliance, and then throw a switch. Brilliant streaks of purple, of unknown reds and glaring whites, raced each other in quick succession through the tubes, little indicators here and there sparked out malevolently, and the machine seemed to leap, strain and throb with a life of its own, uncanny and mysterious because of its silence. The group of men peered curiously at the plate, saw it glow a dull red, pass the cherry stage to a dull pigeon blue, and then suddenly burst into a gleaming mass of iridescent white.

"Fusion!" one of the engineers whispered to a man beside him. "He has fused that plate in less time than it could be done by any means I ever heard of. That is the way he metamorphoses his metal."

The rays died out, the apparatus stopped its quivering, and the inventor with hands clasped behind him stood intently watching the now cooling metal. Within the laboratory all was silence. From the adjoining buildings came the regular sound of hammers, and from somewhere off to wards the cabins a man's voice was raised in a song of soldiery. The sheet of metal lost its color and became dark. Old Bill" Roberts depressed a button above his head, and cooling sprays began dissipating them selves over the surface, sending up brief splutterings and clouds of rapidly diminishing steam.

"It's cool enough now to handle," he said in an oddly constrained tone of voice, turning to the engineers, "and if some of you will help me carry it to the testing tank you may see me prove the first plate on which hangs the fate of our country."

In an awed hush of expectancy they all volunteered; but only three men were needed to hold it while it was attached to the great arms which were to revolve it in the water and demonstrate its resistance. The inventor threw a switch, and the sheet began to move. Before him he was dimly conscious of the massive machinery, and beneath it a scale of friction pulls showing the resistance offered by normal metal. He fastened his eyes on the indicator with a look of strained watchfulness. Slowly the needle point swung round as the arms gained the maximum of speed, and then it came to a standstill, while a look of doubt and perplexity crept over the scientist's face.

"Norm," he called, huskily—"Norm! Was everything all right? Is everything working true?"

She took a step behind him, and with a look no less worried than his own stared at the dials indicating the speed of revolution and the scale of resistance. "Yes, father," she replied, gently, "everything is all right." She put her arm over his shoulder as if to shield him. "But something must have gone wrong somewhere else. Come away now and let us think it over."

She turned to the waiting officers behind and looked them calmly in their faces, while the inventor, dazed and uncomprehending, ran his fingers through his shock of white hair and gazed at the telltale dials as if hypnotized by two staring eyes.

"Gentlemen," she said, "the first experiment is a failure."

Those among them who had been slightly skeptical smiled at one another; while those whose belief had been more firm looked sympathetically at this slip of a girl who faced them all in steady defiance, her trust in her father, herself and their invention unshaken and unfaltering.

"You, Mr. Jenkins," she said, addressing one of the engineers, "are yourself a scientist and an experimentalist. You of all present know how easy it is for a tiny mistake to rob delicate work of definite result." There was a note of appeal in her voice that reached them all.

As if with one accord they rushed forward, grasping her hand and surrounding her father, giving them words of encouragement.

It was the gruff voice of the old admiral which aroused them to renewed action. "Pshaw, Bill! That's nothing," he growled. "Here! We've got more plates cast. Throw another on, and give it a try out. Wake up, man! Wake up! We've got to make it go!"

Jenkins and two others rushed to the adjoining room and brought in a second slab of metal, and the old inventor, giving himself a shake as if pulling back from the very vortex of despair, with trembling hands placed the sheet of insulation and made the new connections with the plate.

"Norm," he almost whispered, "you look it over and turn the current on this time. Somehow my eyes seem to have gone back on me."

Again they watched from a distance the steady movements of the assistant, who without a tremor threw on the current, held it in leash, and directed it as if within her hand she held the clutch of a friend. Once more they saw the metal cool, the sprays turned on, and then came a dull, grinding, riving sound, and a column of dust shot up into the air and bellowed out over the room. They saw her fall back unconscious as if from some sudden shock, and instinctively sprang to her aid.

In mortal fear that some disaster had overtaken her, some unknown injury from that apparatus, whose voltage was as deadly as that which sweeps through a murderer's chair, they picked her up and carried her out into one of the draughting rooms and laid her limp form on a table.

Her father in a burst of terrible anxiety tore open her corsage and ran his hand over her heart. "She's not dead!" he whispered, hoarsely. "She's been knocked out by a wild current or something I don't understand."

A long breath of relief encircled the room. Not until she recovered consciousness and sat weakly up was the suspense mitigated.

"Feel better, little girl?" the old admiral asked, and the others pressed forward with solicitous inquiries.

She looked at them for a moment, regained her mental control, and answered. "Yes, I'm all right now, but don't mind me. What of the plate?"

They smiled at one another as if abawned upon them that the plate had been forgotten. It was manifestly unfair that she of all others should not share with them the first knowledge of what had been accomplished; so as a guard of honor they supported her back to where the crude agent stood, and then one and all started back with exclamations of amazement.

The plate on which they were building their hopes had disappeared! Where the insulated tank which held it had rested its squatty length was now a ragged hole in the floor, bordered by the shivered ends of twisted and shattered wood, and beneath this was a yawning hole several feet deep, broken electric wires, and the great slab of metal.

Norma, as if the excitement of the discovery had acted as a tonic, released herself from the supporting arms, walked to the shining brass structure, and leaned against it. Brockton pulled off his cap and scratched his head in a puzzled way, and Jenkins removed the glasses from his nose and began nervously polishing them. The other engineers gaped at each other, at the inventor and then back to the hole wherein to all appearances was buried the thing on which they had built all their hope. "Old Bill" Roberts stood by its edges, looking down and examining the broken wires, a picture of perplexity or despair. He came back and crowded through their midst, examining a connection and tracing out one of the strands, and then stood in listless attitude, his brows drawn into a frown and his arms hanging loose and pendulous from his shoulders. The time stretched into minutes, and Jenkins and Norma gave a dim attention, to which the others listened, striving to understand the phraseology of electrical science, of which many of them had little more than the layman's knowledge. Suddenly a sharp cry came from the inventor.

They looked to the other side of the room, whither he had retreated, and beheld him jumping up and down like a madman. His fists were clenched and thrust into the air, where they opened clawlike and waved a tremolo of excitement. "I've got it!" he screamed in the acme of joy.

They drew back from him, fearing that failure had loosened his brain, but he rushed through the group, excitedly calling for men to repair the break. The admiral, unused to his periods of enthusiasm, stared at him blankly, his lower jaw unconsciously dropping, until his mouth yawned in cavernous suspense. In his mind nothing but insanity could account for this outburst.

Norma, on the other hand, laid a restraining hand on his arm and said:

"Father, what's the matter? What is it?"

"We've been working in the dark," he answered vehemently, and then with the jubilation of a boy but in a calmer tone continued: "By an accident we have discovered powers in our combination of electricity and metallurgy that we have not guessed of, and which, if we can control them, make the resistant armor we came down here to manufacture as useless as a wooden hull!"

The admiral suddenly dropped his bulk to a stool. "Good God!" he gasped, "are you mad?"

Norma, like one from whose eyes a hoodwink has been suddenly removed, and appearing almost to have read her father's mind, put her hand out to his shoulder and looked at him searching ly. A slow grin of great exultation swept over the lean old face into which she pushed the wrinkles deeper into the corners of the eyes, and a mass of radiating furrows round the mouth.

"You've guessed it," he said, and then turned to the admiral. "Brockton, you don't know what that hole meant, but in an hour from now I'm going to show you. That is, Norma, my assistant, and I will."

Then in a sudden frenzy for work he asked them all to leave until he sent for them, and they, wondering and speculating on his next endeavor, obeyed. Only the workmen, who had descended into the cavity and were preparing to hoist the plate and mold, and the admiral, by special invitation, remained. The clang of hammers resounded hollowly through the room as the timbers beneath the floor were shored up by the carpenters, then came the setting of another tank and larger tank than the one which had been so unexpectedly driven into the earth. The smaller plates which had been intended only for experimental purposes were exhausted, and therefore they had nothing on which to operate save two immense castings weighing many tons. Wide sliding doors rolled back, and workmen from the foundry, with straining muscles and clinging toes, slowly pushed in low-wheeled cars on which rested the huge pieces of metal. A steel crane projected its ungainly arm, reached slowly down, and in a Titanic grasp picked up one piece, moved it into position over the new bed, and deposited it in a great basin whose material indicated that it would be able to withstand any heat.

The admiral in boyish exuberance would have thrown wide the door; but the inventor, remembering the other contretemps, forbade. The latter busied himself for a few minutes in his storehouse, and returned with a sheet of peculiar insulation which was of his own invention, almost indestructible by heat, and a resistant to any form of radioactivity, which he placed with great care on top of the huge plate. The second plate was lowered squarely on top of this, clamped for additional security, and the workmen dismissed. The connections were made in identically the same way as in the previous test, except that one electrical apparatus was attached to the upper plate above the insulation and the other to the one beneath. Brockton, seeing that the currents were about to be applied, backed off into the corner, until stopped by the farthermost partition.

(TO BE CONTINUED.)

"Gentlemen," She Said, "the First Experiment Is a Failure."

The Living Present.

He that hath so many causes of joy, and so great, is very much in love with sorrow and peevishness, who loses all these pleasures, and chooses to sit down upon his little handful of thorns. Enjoy the blessings of this day, if God sends them, and the evils of it bear patiently and sweetly, for this day only is ours, we are dead to yesterday, and we are not yet born to the morrow. But if we look abroad and bring into one day's thoughts the evil of many, certain and uncertain, what will be and what will never be, our load will be as intolerable as it is unreasonable.—Jeremy Taylor.

Good Rules.

Two striking amendments to the senate rules, both of which were prepared by Vice-President Fairbanks, were introduced in the senate by Mr. Lodge and were referred to the committee on rules.

Their effect is to prevent a senator from referring offensively to either the president of the United States, courts, or to the house of representatives, and to put an end to the reading of documents which have no bearing upon subjects under discussion, where the reading is for the sole purpose of advancing a filibuster.

The proposed rules are as follows: "When the reading of a paper is called for and objected to, or when the reading of a paper by a senator is objected to, such objection shall be determined by a vote of the senate without debate."

"No senator in debate shall refer offensively to either of the other coordinate departments of the government or to the other branch of congress."

Castro Not Deposed Yet.

That the new government of Venezuela must bring a judicial prosecution in a criminal court against Cipriano Castro, self-exiled president of that country, in order to encompass his deposition officially, was stated by Count Luigi Aldrovandi, who arrived in New York from Caracas on the steamship Zulia.

The actual political situation in Venezuela today is a peculiar one, said Count Aldrovandi. Castro is still the official president of that country under the terms of the Venezuelan constitution. In order to make Gomez the constitutional president it will be necessary to impeach Castro on a criminal count, and I understood Gomez to do this as a judicial process. The charges against Castro will be brought against him, based on his alleged action in cabling to P. M. Cardenas, then a departmental governor, an order for the shelling of Gomez during the riots that followed Castro's departure from Caracas."

WIRELETS.

Federal Judge Anderson Tuesday ordered the drawing of a venire of 150 names for the trial of the $29,000,000 Standard Oil suit, which begins in Chicago, Feb. 23.

Many steel mills are idle and thousands of men are deprived of work because of the congressional effort to tinker with the tariff, according to B. F. Jones, of the Jones & Laughlin Steel Co., one of the largest steel companies in the United States. He declares no relief would be looked for until the tariff was settled one way or the other.

THE MARKETS.

Detroit—Cattle—Market active and 10c higher than Wednesday. 15 to 20c higher than last week. Best quote extra dry-fed steers and heifers $5.30; steers and heifers, 1,000 to 1,200, $4.75 @5.25; steers and heifers 800 to 1,000, $4.25@5; steers and heifers that are fat, 500 to 700, $4@4.40; butcher cows, $4; good fat cows, $3.50@3.65; common cows, 50@3; canners, $1.50 @2; choice heavy bulls, $4@4.25; fair to good bologna bulls, $3.40@3.60; light bologna bulls, $3@3.25; stockers, young, medium age, $4@4.25; common milkers, $28@35.

Veal calves—Market steady at Wednesday's prices. Best, $7.50@8; others, $4@7; milch cows and springers, good strong. Sheep and lambs—Market 15c to 25c higher than last week. Best lambs, $7; fair to good lambs, $6.50@6.75; light to common lambs, $5@6; fair to good sheep, $5.50@5.65; culls and common, $2.50@3.25.

Hogs—Market 10c higher than Wednesday, and at the close last week. Range of prices: Light to good butchers, mixed and yorkers, $6.60@6.65; light yorkers, $6@6.25; stags, ⅓ off.

East Buffalo, Cattle—The quality of cattle and market was not as good as last week. The trade opened fairly active and about 25c higher on all medium kinds. There was but few heavy cattle on the market and the trade was practically no demand for them. Extra choice 1,300 to 1,400 lb steers, $5.50 to 5.60; choice shipping $5.25@5.35; best 1,000 to 1,200 shipping $4.90@5; best 1,000 to 1,200 shipping $4.70@4.80; fair to good $4@4.50; good to choice 1,000 to 1,200 butchers, $4.50@4.75; best 1,000 to 1,200 butchers, $4.25@4.40; best 1,000 to 1,200 butchers, $4.10@4.25; best 1,000 to 1,200 butchers, $3.90@4.05; best 1,000 to 1,200 butchers, $3.75@3.90; best 1,000 to 1,200 butchers, $3.60@3.75; best 1,000 to 1,200 butchers, $3.50@3.60; best 1,000 to 1,200 butchers, $3.40@3.50; best 1,000 to 1,200 butchers, $3.30@3.40; best 1,000 to 1,200 butchers, $3.20@3.30; best 1,000 to 1,200 butchers, $3.10@3.20; best 1,000 to 1,200 butchers, $3@3.10; best 1,000 to 1,200 butchers, $2.90@3; best 1,000 to 1,200 butchers, $2.80@2.90; best 1,000 to 1,200 butchers, $2.70@2.80; best 1,000 to 1,200 butchers, $2.60@2.70; best 1,000 to 1,200 butchers, $2.50@2.60; best 1,000 to 1,200 butchers, $2.40@2.50; best 1,000 to 1,200 butchers, $2.30@2.40; best 1,000 to 1,200 butchers, $2.20@2.30; best 1,000 to 1,200 butchers, $2.10@2.20; best 1,000 to 1,200 butchers, $2@2.10; best 1,000 to 1,200 butchers, $1.90@2; best 1,000 to 1,200 butchers, $1.80@1.90; best 1,000 to 1,200 butchers, $1.70@1.80; best 1,000 to 1,200 butchers, $1.60@1.70; best 1,000 to 1,200 butchers, $1.50@1.60; best 1,000 to 1,200 butchers, $1.40@1.50; best 1,000 to 1,200 butchers, $1.30@1.40; best 1,000 to 1,200 butchers, $1.20@1.30; best 1,000 to 1,200 butchers, $1.10@1.20; best 1,000 to 1,200 butchers, $1@1.10; best 1,000 to 1,200 butchers, $0.90@1; best 1,000 to 1,200 butchers, $0.80@0.90; best 1,000 to 1,200 butchers, $0.70@0.80; best 1,000 to 1,200 butchers, $0.60@0.70; best 1,000 to 1,200 butchers, $0.50@0.60; best 1,000 to 1,200 butchers, $0.40@0.50; best 1,000 to 1,200 butchers, $0.30@0.40; best 1,000 to 1,200 butchers, $0.20@0.30; best 1,000 to 1,200 butchers, $0.10@0.20; best 1,000 to 1,200 butchers, $0@0