# THE POINTS INVOLVED IN JOINT.

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#### THE BLUE JAY.

THE BLUE JAY. We give our readers on this page, an engrav-ing of a blue jay-a bird as widely known as he is injurious. If "hundsome is that hand-some does" he trae of birds, then the jay is a model of ugliness in spite of his bright colors. Every mark shand is raised against him for he is a destroyer of fruit and grain, and inta-and is a destroyer of fruit and grain, and inta-grower and farmer. It spite of the guns and trajs which seed his life, this worse than worthless bird is still abundant and seems to thrive in the adversity which farmers endavore to visit upon him.

the view in the adversity which farmers endeavor to visit upon him. The Tohrneise as a Banomerran, M. J. P. Bonchard, says the London Avener, publishes the results of a zeroes of observations he has made for some years part on the habits of the common torbise as indicative of approaching changes in the weather, more specially of and of the some years part on the habits of the composition of temperatures. At the end of antime, it is severe winter is at hand the tor-nate to be completally hidden. If, on the con-nate the some temperatures, and the same of the source of the source of the optimally of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source of the source of the optimal of the source to the source of the source of the source of the protocol of the degrees above free optimal protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the source of the protocol of the source of the protocol of the source of the

able for years past to avoid danger from intex-pected night fronts in his numerous glass-homes. Cual AND host is INUA.—Mr. Walter Ness, who is under an engagement by the litritial guvernment to develop the Warter and fields of Central India, states that in the Warter acad-fields there are by computation, 300,000,000, time of coal within 14 miles. The coal con-sisted mainly of an U-foot seam, but owing to the difficulty of native labor, it had to be worked by the long wall system. It took three or four natives to de the same amount of work done by one English miner. He had some trouble in training the natives to work in the pits, and also as blacksmiths and carpenters, but afterwards they gave him fittle trouble, as they were amenable to law and order. About 50 miles from where he was engaged in the de-velopment of the coal field, there was shill with a rich vein of ironstane, and he calculated that it containes from where he was engaged in the de-velopment of the coal field, there was shill with a rich vein of ironstane, and he calculated that it contained 3,000,000 tono mode m India. He would be worked, and iron made m India. He and the coal was not faulty, and he had not seen any gas. All the coal raised a treesnit is 12 shillings per tan, but this would be reduced then the coal could be worked by skilled work-man.

To BRUETERS INC. The following method work-man. To BRUETERS INC. The following method of brightening iron, which appears satisfies for some of the loss important parts of large elocks, is recommended by Bolen. The articles to be brightened are, when taken from the forge or rolls, in the case of such articles as plate, wire, etc., placed in diluted supports and (1 to 20), where they remain for shoult and bot. This has the diffect of cleaning them, and they are washed clean with water and drivel with sawduet. They are then dipped for about a second in commer-cial attrons scid, washed exercitly, dried in such as the treated acquire, without undergoing any of the usual polishing operations, a bright surface having a white glance. Care should be inhale the fumes.

THE WEST SHORE.



### THE BLUE JAY.

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# January.

### THE AGE OF STEEL

THE AGE OF STEEL. Mr. Lowthiau Bell, the English expert, is well known to be of the opinion that the age of iron is approaching its close, and the object upon which the emergies of that gentleman have for more time been concentrated is to products were there are unable of the opinion of the transformer the iron the public furnace by a direct process. He candidly told his hearers at Newcastle that "now-aday, so far as ulterior products were concerned, it was neither bar iron nor pg iron they required, but seel and, however their in-teresta might decoive them into the belief that malleable from was going to retain this position it had occupied for some thousands of years, there was no doubt in his mind that steel was deatined to supplant it." It cannot be ignored, any the condom *Telegraph*, that, at least as re-proference, given to steel for raits their way ind many other articles, patent facts yield in-creasing support to the forecast of Mr. Low-than bell. In consequence of the increasing proference, given to steel for raits, the build is described the supplant it. The supplant is the steel was almost entirely disappeared. When raitway companies renew their permanent way, if it should happen to have been formerly laid with read will waar three or four times longer than the case of iron vessels, and the advantage in favor of steel, in respect of durability, fight-mes and expanyly on the standing required in the case of iron vessels, and the advantage in favor of steel, in respect of durability, flight-mes and expanyly the standing required in the case of iron vessels, and the advantage in favor of steel, and required in the displacement of the standing in favor of steel, and required in a stream in the displacement of the optimular frequencies in the case of iron vessels, and the advantage in favor of steel, and bridge span the grant and if seel vessels last proportionately long, it is obvious that, unless suterprise in these do partnents develops on a cacke rate br Mr. Lowthian Bell, the English expert, is

placing wasted material. INTEROVED CARMINE ISE. — The Explicit Me-ducine argos. The solubility of carmine lake in consutis equan ammonia is attended with this dis-advantage: that in consequence of the alkaline properties of ammonia, the cochineal pigment will, in time, form a basic compound, which is constant with a steel pen no longer produces the intenas red, but rather a blackish color. To avoid this evil, prepare the ink as follows: Sat-intenas red, but rather a blackish color. To avoid this evil, prepare the ink as follows: Sat-meter I granues of pure earnice with 15 crammes of acetate of numoria solution and an equal quantity of distilled water in a procelan mortar, and allow the whole to stand for some time. In this way a portion of the alumnis which is combined with the carmin day, is taken up by the neetic acid of the anomains alt, and separates as precipitate, while the pure pig-ment of the cochineal remains dissolved in half startured and which holds its color for a long time. A solution of gun arabic cannot be em-ployed to thicken this mk, as it still contains one acetic acid, which would coagulate the sassorine which is one of the ratural constit-uents of gun arabic.

uents of gum arabic. Cates or Mill, Fines. — A correspondent of the London (England) Miller writes as follows concerning frees in flour mills. "I have been for more than 30 years connected with the irrade, and in that time it has been my misfor-tion to be once burned out of a situation. I have also seen and know many mill first, the majority of which have taken place in the night, and most of those after the mills are shut down several hours, many of them breaking out of Sanday morning, and even as late as the even ing, or after milling it is not observed in a situation. I arribute to the smoldering of dust around some het bearing till it has assumed a body of ite and bearing till it has assumed a body of ite and the treat wood, when a sight draught has pro-tineed a flame, and before being noticed wa pread too for to be stopped till the mill and its or most cases this might have been fill and in most cases this might have force looking wy the place for the mills.

the place for the night. To Srov Nosz-Bizzzo, —A correspondent of the Dragget's differences mays. The bleeding may arise from an importained state of the bloed, or it may be the symptom of some other prehensions seek the attrice of a physician. At immes simple remedies relieve great ills, and pertupa a knowledge of the following ample remedies might prove serviceable: Reeding may be stopped by raising the arms above its nead. Sponging with ice-water the forehash and face. Applying a towel wet with only we ter between the shoulders. Application of a strong solution of alum to the inside of the sa-trils, or plagging the mostile with list of ex-tons woul socked in this solution. Theory in the same, which by compressing the arteris, checks bleeding. A Sick WHALE.—A white whole (Bellow

checks onesting. A Suck WHALE — A white whale (Bellow borealle) was lately carried to England from America for the Westminster Aquarism. It was very thin when it arrived, not having eater anything for twelve days, and the spinous pro-cesses protruided two to three inches along in back. It was fed on each, and second to impre-rapidly, but died in a few days. Dissection proved that it died of inflammation of the large which has surprised people, as occurring in an aquatic species. But a whale's fat is its fold-ing, and it is not strange that it should catch cold when its clothing is used ap.